

APPLICATION FOR FINANCIAL ASSISTANCE

Revised 4/99

IMPORTANT: Please consult the "Instructions for Completing the Project Application" for assistance in completion of this form.

SUBDIVISION: City of Cincinnati **CODE #** 061-15000

DISTRICT NUMBER: 2 **COUNTY:** Hamilton **DATE** 09/09/08

CONTACT: Becky Calder, P.E. **PHONE #** (513) 591-7857

(THE PROJECT CONTACT PERSON SHOULD BE THE INDIVIDUAL WHO WILL BE AVAILABLE DURING BUSINESS HOURS AND WHO CAN BEST ANSWER OR COORDINATE THE RESPONSE TO QUESTIONS)

FAX: (513) 591-7878 **E-MAIL** becky.calder@gcww.cincinnati-oh.gov

PROJECT NAME: Galbraith Road Water Main Replacement Project

SUBDIVISION TYPE

(Check Only 1)

☐ 1. County

☒ 2. City

☐ 3. Township

☐ 4. Village

☐ 5. Water/Sanitary District

(Section 6119 or 6117 O.R.C.)

FUNDING TYPE REQUESTED

(Check All Requested & Enter Amount)

☐ 1. Grant \$ _____

☐ 2. Loan \$ 1,628,022

☐ 3. Loan Assistance \$ _____

PROJECT TYPE

(Check Largest Component)

☐ 1. Road

☐ 2. Bridge/Culvert

☒ 3. Water Supply

☐ 4. Wastewater

☐ 5. Solid Waste

☐ 6. Stormwater

TOTAL PROJECT COST: \$1,628,022

FUNDING REQUESTED: \$1,628,022

DISTRICT RECOMMENDATION

To be completed by the District Committee ONLY

GRANT: \$ _____

LOAN ASSISTANCE: \$ _____

SCIP LOAN: \$ 1,628,022

RATE: 0 % **TERM:** 20 yrs.

RLP LOAN: \$ _____

RATE: _____ % **TERM:** _____ yrs.

(Check Only 1)

☒ State Capital Improvement Program

☐ Small Government Program

☐ Local Transportation Improvements Program

FOR OPWC USE ONLY

PROJECT NUMBER: C _____ / C _____

Local Participation _____ %

OPWC Participation _____ %

Project Release Date: _____

OPWC Approval: _____

APPROVED FUNDING: \$ _____

Loan Interest Rate: _____ %

Loan Term: _____

years

Maturity Date: _____

Date Approved: _____ **SCIP**

Loan _____ **RLP Loan** _____

1.0 PROJECT FINANCIAL INFORMATION

1.1 PROJECT ESTIMATED COSTS:
(Round to Nearest Dollar)

**Force Account
Dollars**

TOTAL DOLLARS

a.) Basic Engineering Services: \$.00

Preliminary Design	\$
Final Design	\$
Bidding	\$
Construction	Phase \$

Additional Engineering Services \$.00
***Identify services and costs below.**

b.) Acquisition Expenses:
Land and/or Right of Way \$ _____ .00

c.) Construction Costs: \$ 1,628,022.00

d.) Equipment Purchased Directly: \$.00

e.) **Permits, Advertising, Legal:** \$ _____,000.00
(Or Interest Costs for Loan Assistance Applications Only)

f.) Construction Contingencies: \$ _____ .00

g.) TOTAL ESTIMATED COSTS: \$ 1,628,022.00

***List Additional Engineering Services here:**
Service: **Cost:**

1.2 PROJECT FINANCIAL RESOURCES:
 (Round to Nearest Dollar and Percent)

	DOLLARS	%
a.) Local In-Kind Contributions	\$ <u> .00</u>	
b.) Local Revenues	\$ <u>1,628,022.00</u>	<u>100%</u>
c.) Other Public Revenues		
ODOT	\$ <u> .00</u>	
Rural Development	\$ <u> .00</u>	
OEPA	\$ <u> .00</u>	
OWDA	\$ <u> .00</u>	
CDBG	\$ <u> .00</u>	
OTHER _____	\$ <u> .00</u>	
SUBTOTAL LOCAL RESOURCES:	\$ <u> .00</u>	
d.) OPWC Funds		
1. Grant	\$ <u> .00</u>	
2. Loan	\$ <u>1,628,022.00</u>	<u>100%</u>
3. Loan Assistance	\$ <u> ,000.00</u>	
SUBTOTAL OPWC FUNDS:	\$ <u> ,000.00</u>	
e.) TOTAL FINANCIAL RESOURCES:	\$ <u>1,628,022.00</u>	<u>100%</u>

1.3 AVAILABILITY OF LOCAL FUNDS:

Attach a statement signed by the Chief Financial Officer listed in section 5.2 certifying all local share funds required for the project will be available on or before the earliest date listed in the Project Schedule section.

ODOT PID# _____ Sale Date:

STATUS: (Check one)

Traditional

Local Planning Agency (LPA)

State Infrastructure Bank

2.0 PROJECT INFORMATION

If the project is multi-jurisdictional, information must be consolidated in this section.

2.1 **PROJECT NAME:** Galbraith Road Water Main Replacement Project

2.2 **BRIEF PROJECT DESCRIPTION - (Sections A through C):**
A: SPECIFIC LOCATION:

This project is located on East Galbraith Road between Cross County Highway and Fontaine Ct. The project is in Hamilton County with a majority of the project is in Amberly Village and a small portion within the City of Reading. See attached the map for location of the water mains the project.

PROJECT ZIP CODE: 45236 & 45237

B: PROJECT COMPONENTS:

This project includes the replacement of an existing 8" distribution water main with new 12" "dual service" water main. The primary purpose of a "dual service" water main is to move larger volumes of water quickly to higher demand areas. The project also includes the installation of water branches, fire hydrants, valves and chambers in the right of way, disinfection, pressure testing and performing all other related work.

C: PHYSICAL DIMENSIONS:

This project involves the abandonment of an existing 8" water main and replacement with approximately 9330 feet of 12" ductile iron pipe in East Galbraith Road.

D: DESIGN SERVICE CAPACITY:

Detail current service capacity versus proposed service level.

This project is designed to meet existing and future water system demands.

Road or Bridge: Current ADT _____ Year: _____ Projected ADT: _____ Year:

Water/Wastewater: Based on monthly usage of 7,756 gallons per household, attach current rate ordinance. Current Residential Rate: \$ _____ Proposed Rate: \$ _____

** See attached rate schedule**

Stormwater: Number of households served:

2.3 **USEFUL LIFE/COST ESTIMATE:** Project Useful Life: 75 Years.

Attach Registered Professional Engineer's statement, with original seal and signature confirming the project's useful life indicated above and estimated cost.

3.0 REPAIR/REPLACEMENT or NEW/EXPANSION:

TOTAL PORTION OF PROJECT REPAIR/REPLACEMENT \$ 1,628,022.00

TOTAL PORTION OF PROJECT NEW/EXPANSION \$ 0.00

4.0 PROJECT SCHEDULE:*

	BEGIN DATE	END DATE
4.1 Engineering/Design:	<u>11/1/2008</u>	<u>1/1/2009</u>
4.2 Bid Advertisement and Award:	<u>2/1/2009</u>	<u>3/1/2009</u>
4.3 Construction:	<u>4/1/2009</u>	<u>12/31/2009</u>
4.4 Right-of-Way/Land Acquisition:	<u>NA</u>	<u>NA</u>

* Failure to meet project schedule may result in termination of agreement for approved projects. Modification of dates must be requested in writing by the CEO of record and approved by the commission once the Project Agreement has been executed. The project schedule should be planned around receiving a Project Agreement on or about July 1st.

5.0 PROJECT OFFICIALS:

5.1 CHIEF EXECUTIVE OFFICER David Holmes
TITLE Assistant City Manager
STREET Room 104, City Hall

CITY/ZIP Cincinnati, Ohio 45202
PHONE (513) 352-5368
FAX (513) 352-2458
E-MAIL

5.2 CHIEF FINANCIAL OFFICER Joseph Gray
TITLE Finance Director
STREET Room 250, City Hall

CITY/ZIP Cincinnati, Ohio 45202
PHONE (513) 352-5372
FAX (513) 352-1520
E-MAIL

5.3 PROJECT MANAGER Steve Hellman
TITLE Superintendent of Business Services
STREET 4747 Spring Grove Avenue

CITY/ZIP Cincinnati, Ohio 45232
PHONE (513) 591-7965
FAX (513) 591-7867
E-MAIL

Changes in Project Officials must be submitted in writing from the CEO.

6.0 ATTACHMENTS/COMPLETENESS REVIEW:

Confirm in the blocks [] below that each item listed is attached.

- [] A certified copy of the legislation by the governing body of the applicant authorizing a designated official to sign and submit this application and execute contracts. This individual should sign under 7.0, Applicant Certification, below.
- [X] A certification signed by the applicant's chief financial officer stating all local share funds required for the project will be available on or before the dates listed in the Project Schedule section. If the application involves a request for loan (RLP or SCIP), a certification signed by the CFO which identifies a specific revenue source for repaying the loan also must be attached. Both certifications can be accomplished in the same letter.
- [X] A registered professional engineer's detailed cost estimate and useful life statement, as required in 164-1-13, 164-1-14, and 164-1-16 of the Ohio Administrative Code. Estimates shall contain an engineer's original seal or stamp and signature.
- [NA] A cooperation agreement (if the project involves more than one subdivision or district) which identifies the fiscal and administrative responsibilities of each participant.
- [NA] Projects which include new and expansion components and potentially affect productive farmland should include a statement evaluating the potential impact. If there is a potential impact, the Governor's Executive Order 98-VII and the OPWC Farmland Preservation Review Advisory apply.
- [] Capital Improvements Report: (Required by O.R.C. Chapter 164.06 on standard form)
- [X] Supporting Documentation: Materials such as additional project description, photographs, economic impact (temporary and/or full time jobs likely to be created as a result of the project), accident reports, impact on school zones, and other information to assist your district committee in ranking your project. Be sure to include supplements which may be required by your *local* District Public Works Integrating Committee.

7.0 APPLICANT CERTIFICATION:

The undersigned certifies: (1) he/she is legally authorized to request and accept financial assistance from the Ohio Public Works Commission as identified in the attached legislation; (2) to the best of his/her knowledge and belief, all representations that are part of this application are true and correct; (3) all official documents and commitments of the applicant that are part of this application have been duly authorized by the governing body of the applicant; and, (4) should the requested financial assistance be provided, that in the execution of this project, the applicant will comply with all assurances required by Ohio Law, including those involving Buy Ohio and prevailing wages.

Applicant certifies that physical construction on the project as defined in the application has NOT begun, and will not begin until a Project Agreement for this project has been executed with the Ohio Public Works Commission. Action to the contrary will result in termination of the agreement and withdrawal of Ohio Public Works Commission funding from the project.

Certifying Representative (Type or Print Name and Title)

David Holmes, Assistant City Manager

David L. Holmes, August 26, 2008
Original Signature/Date Signed

GALBRAITH RD - CROSS COUNTY HWY TO FONTAINE CT.

E. Galbraith Road
Funding Estimate

CINCINNATI WATER WORKS Estimated Labor Summary

Page 1 of 1
8/28/2008
11:33:05 AM

C.W.W. Job Number D-9988-G(A)

(100% Cincinnati Water Works Cost)

* Contingency Item

Item No.	Quantity	Unit	Description	Unit Cost	Total Cost
1101	547	Lin. Ft.	Furnishing and Laying 6" Ductile Iron Pipe and Fittings	\$150.00	\$82,050.00
1101	450	Lin. Ft.	Furnishing and Laying 10" Ductile Iron Pipe and Fittings	\$180.00	\$81,000.00
1101	9330	Lin. Ft.	Furnishing and Laying 12" Ductile Iron Pipe and Fittings	\$125.00	\$1,166,250.00
1110	35	Cu. Yd.	Concrete, Class "C"	\$140.00	\$4,900.00
1111	9	Each	8" Valve Chamber (Precast)	\$2,000.00	\$18,000.00
1111	1	Each	* 1" Air Cock Chamber on 8" Water Main (Precast)	\$2,000.00	\$2,000.00
1111	1	Each	* 1" Air Cock Chamber on 12" Water Main (Precast)	\$2,000.00	\$2,000.00
1111	15	Each	12" Valve Chamber (Precast)	\$2,000.00	\$30,000.00
1112	22	Each	Hauling and Installing Fire Hydrant	\$900.00	\$19,800.00
1114	22	Each	Removing Fire Hydrant	\$500.00	\$11,000.00
1115	3	Each	* Furnishing and Installing Fire Hydrant Extension, 6" Long	\$500.00	\$1,500.00
1115	15	Each	Furnishing and Installing Fire Hydrant Extension, 12" Long	\$500.00	\$7,500.00
1115	4	Each	* Furnishing and Installing Fire Hydrant Extension, 18" Long	\$500.00	\$2,000.00
1116	22	Each	Furnishing and Installing Valve Box Complete	\$250.00	\$5,500.00
1119	200	Cu. Yd.	* Additional Excavation	\$60.00	\$12,000.00
1120	200	Cu. Yd.	* Exploratory Excavation	\$75.00	\$15,000.00
1121	56	Cu. Yd.	Filling Abandoned Water Works Structures	\$75.00	\$4,200.00
1122	17	Each	Removing Existing Manhole Curb and Cover	\$225.00	\$3,825.00
1122	22	Each	Removing Existing Valve Box	\$100.00	\$2,200.00
1123	200	Lin. Ft.	* Changing 8" and Under Pipe Sewer	\$75.00	\$15,000.00
1123	200	Lin. Ft.	Changing 10" Thru 24" Pipe Sewer	\$85.00	\$17,000.00
1126	1072	Lin. Ft.	Furnishing, Installing and Connecting 3/4" Copper Service Pipe	\$56.00	\$60,032.00
1126	150	Lin. Ft.	Furnishing, Installing and Connecting 1" Copper Service Pipe	\$56.00	\$8,400.00
1126	120	Lin. Ft.	Furnishing, Installing and Connecting 1-1/2" Copper Service Pipe	\$61.00	\$7,320.00
1126	100	Lin. Ft.	Furnishing, Installing and Connecting 2" Copper Service Pipe	\$65.00	\$6,500.00
1128	37	Each	Reconnecting Existing 3/4" Service Branch	\$400.00	\$14,800.00
1128	7	Each	Reconnecting Existing 1" Service Branch	\$400.00	\$2,800.00
1128	4	Each	Reconnecting Existing 1-1/2" Service Branch	\$500.00	\$2,000.00
1128	1	Each	Reconnecting Existing 2" Service Branch	\$500.00	\$500.00
1131	70	Each	Furnishing and Installing Curb and Roadway Box	\$124.00	\$8,680.00
1138	12	Each	Removing Curb and Roadway Box	\$125.00	\$1,500.00
509	4755	Lbs.	Reinforcing Steel	\$1.00	\$4,755.00
602	1	Cu. Yd.	* Brick Masonry	\$210.00	\$210.00
619	1	Each	Temporary Facilities	\$7,500.00	\$7,500.00
637	1	MFBM	* Sheeting and Bracing Ordered Left in Place	\$300.00	\$300.00

Total Estimated Labor Cost

\$1,628,022.00

Project Duration = 210 Days
Total Number of Plan Sheets = 25



Rebecca Calder



GREATER CINCINNATI
WATER WORKS

A Service of The City of Cincinnati

**Greater Cincinnati
Water Works**
The Standard for Excellence

4747 Spring Grove Avenue
Cincinnati, Ohio 45232-1986
513-591-7890 **Phone**
513-591-7967 **Fax**

David E. Rager
Director

Carel Vandermeiden
Chief Engineer

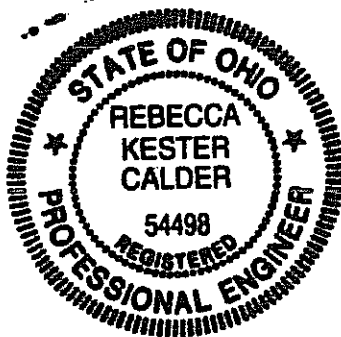
Customer Service
513-591-7700
513-591-7730 **TDD**

Emergency Service
513-591-7700
513-591-7905 **TDD**

September 9, 2008

Subject: Galbraith Road Water Main Replacement Project
Galbraith Rd. from Cross County Hwy. to Fontaine Ct.
Certification of Useful Life

As required by Chapter 164-1-13 of the Ohio Administrative Code, I hereby certify that the design useful life of the subject water main project is at least seventy-five (75) years.



(Seal)

Rebecca Kester Calder, P.E.
Supervising Engineer
City of Cincinnati
Greater Cincinnati Water Works



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Cincinnati, Ohio 45232-1986
513-591-7890 **Phone**
513-591-7967 **Fax**

David E. Rager
Director

Carel Vandermeiden
Chief Engineer

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513-591-7700
513-591-7730 **TDD**

Emergency Service
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513-591-7905 **TDD**

September 9, 2008

Mr. Lawrence Bicking, Director
Ohio Public Works commission
65 East State Street, Suite 312
Columbus, Ohio 43215

RE: Repayment Method for City of Cincinnati Water Works Round 23/2008 RLP
Loan Projects Ohio Public Works Commission Funding

Dear Mr. Bicking:

I am sending this letter to you for the purpose of certifying that the City of Cincinnati Water Works will have funding in the amount of \$1,628,022 in future budgets for the Galbraith Road Water Main Replacement Project-with limits from Cross County Highway to Fontaine Court.

The Cincinnati Water Works annually projects repayment of debt through the budget process. All debt is self-supporting and serviced by water user charges. Matching funds for all Greater Cincinnati Water Works projects will be from cash reserves and/or proceeds from the sale of revenue bonds.

Sincerely,

Steve Hellman
Superintendent of Business Planning and Development

Cc: C. Vandermeiden, Engineering

COUNCIL OF THE CITY OF CINCINNATI

STATE OF OHIO

OFFICE OF THE CLERK OF COUNCIL

I HEREBY CERTIFY that the foregoing transcript is correctly copied from the books, papers and journals of the City of Cincinnati, State of Ohio, kept under authority and by the direction of the Council thereof.

ORDINANCE 0375-2008 passed by the Council of the City of Cincinnati at their session on November 05, 2008 entitled:

ORDINANCE (EMERGENCY) submitted by Milton Dohoney, Jr., City Manager, on 10/29/2008, authorizing the City Manager to apply for and accept street improvement, bridge replacement, landslide correction, retaining wall improvement, rapid transit tube improvement, and street rehabilitation grants, and water supply facility improvement loans and loan assistance from the State of Ohio Public Works Commission, in an amount not to exceed \$16,491,794.00, and to execute any agreements necessary for the receipt and administration of said grants, loans, and loan assistance.

IN TESTIMONY WHEREOF I have

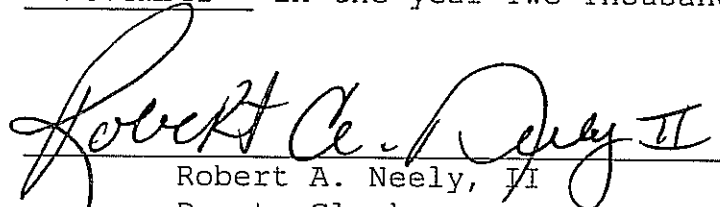
hereunto set my name and affixed

the seal of the Clerk of Council

Office this 6th day of

November in the year Two Thousand and Eight




Robert A. Neely, II
Deputy Clerk

EMERGENCY

City of Cincinnati

DWA *jpc/208*

An Ordinance No. 375

- 2008

AUTHORIZING the City Manager to apply for and accept street improvement, bridge replacement, landslide correction, retaining wall improvement, rapid transit tube improvement, and street rehabilitation grants, and water supply facility improvement loans and loan assistance from the State of Ohio Public Works Commission, in an amount not to exceed \$16,491,794.00, and to execute any agreements necessary for the receipt and administration of said grants, loans, and loan assistance.

WHEREAS, the State Capital Improvement Program, the Local Transportation Improvement Program, and the State Revolving Loan Program provide for infrastructure funding; and

WHEREAS, the District 2 Integrating Committee is accepting applications for Round 23 projects within Hamilton County, State of Ohio; and

WHEREAS, the City of Cincinnati has the required \$11,512,151 in matching City funds for Program Year 2009 for two (2) street improvement projects, namely Dana Avenue from I-71 to Victory Parkway, and Madison Road from Brotherton Road to Ridge Avenue; one (1) combination street improvement and bridge replacement project, namely Spring Grove Avenue / Clifton Avenue Bridge (previously approved for Round 23 funds); one (1) bridge replacement project, namely Center Hill Road Bridge; three (3) landslide correction projects, namely Art Museum Drive, Hillside Avenue at Henrietta Avenue, and Hillside Avenue at Tyler Avenue; one (1) retaining wall improvement project, namely Cummins Street Retaining Wall; one (1) Rapid Transit Tube Structural Repair, from Liberty Street to Brighton Corner; four (4) street rehabilitation projects, namely McMillan Street West Safety Improvement and Rehabilitation, Hyde Park Neighborhood Street Rehabilitation, Mount Auburn Neighborhood Street Rehabilitation, and Winton Road Improvement and Rehabilitation; one (1) loan assistance application for the Countywide Water Main Improvements 2009; and one (1) loan application for Galbraith Road Water Main; now, therefore,

BE IT ORDAINED by the Council of the City of Cincinnati, State of Ohio:

Section 1. That the City Manager is hereby authorized to execute and file applications, on behalf of the City of Cincinnati, with the Ohio Public Works Commission through the Hamilton County District 2 Integrating Committee, for Round 23 grants, loan assistance, and loans at an interest rate acceptable to the City of Cincinnati Director of Finance in an amount

Section 4. That this ordinance shall be an emergency measure necessary for the preservation of the public peace, health, safety and general welfare and shall, subject to the terms of Article II, Section 6 of the Charter, be effective immediately. The reason for the emergency is the immediate need to ensure acceptance of the grant applications and to ensure proper funding mechanisms are in place at the earliest possible time.

Passed November 5, 2008

Attest:

W. Jesse Hunt
Clerk

[Signature]
Mayor

I HEREBY CERTIFY THAT ORDINANCE NO 375-2008
WAS PUBLISHED IN THE CITY BULLETIN
IN ACCORDANCE WITH THE CHARTER ON 11-18-2008

Michelle Hunter
CLERK OF COUNCIL



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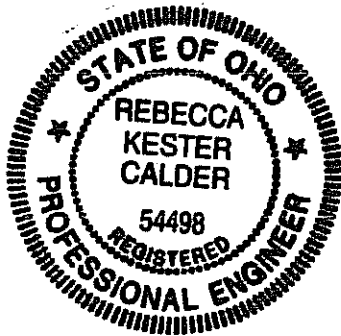
Customer Service
513-591-7700
513-591-7730 **TDD**

Emergency Service
513-591-7700
513-591-7905 **TDD**

September 11, 2008

Subject: Galbraith Road Water Main Replacement Project
Certification of Water Users for the OPWC Project

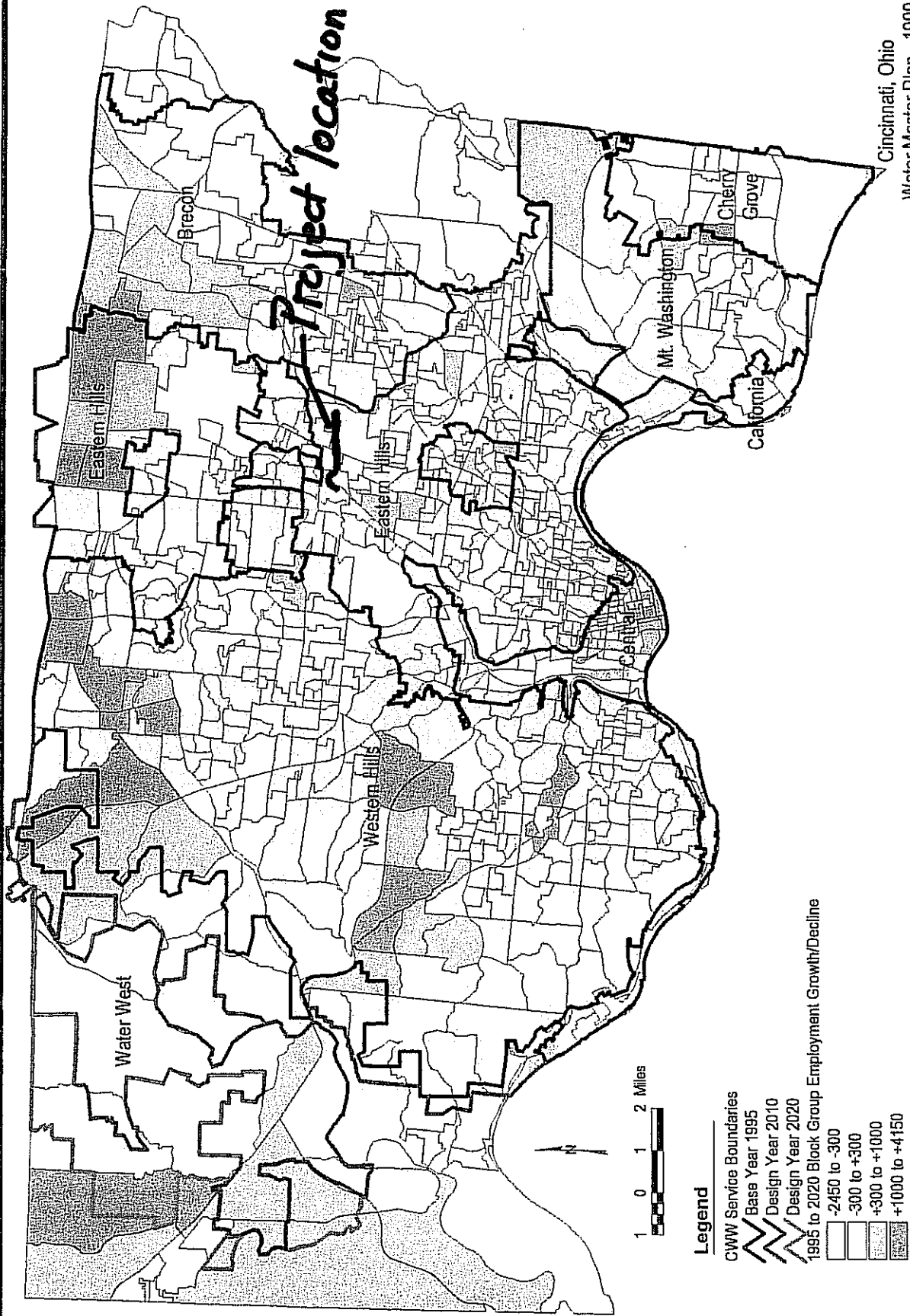
As required by the District 2 Integrating Committee, I hereby certify that the Water customer user counts herein attached for the above referenced project application are true and accurate as completed by the Greater Cincinnati Water Works Engineering Division.



(seal)

Rebecca K Calder

Rebecca Kester Calder, P.E.
Supervising Engineer
Greater Cincinnati Water Works
Engineering Division



Cincinnati, Ohio
Water Master Plan - 1999

1995 to 2020 Hamilton County
Block Group Employment Growth/Decline



2.2.4 Service Level Population

Population served by service level is given in Table 2-4 and shown on Figure 2-9. The service level populations include all retail and wholesale customers in the Primary and Secondary Study Areas except the BFWC service area. Table 2-4 also includes the service level population located specifically within the Primary Study Area (Hamilton County).

Table 2-4 Population Served by Service Level							
Service Level	Population Served ⁽¹⁾						
	Year						
	1960	1970	1980	1990	1995	2010	2020
Central ⁽³⁾	123,254	69,201	53,375	50,258	48,700	47,350	46,960
Western Hills	232,329	326,559	347,872	341,611	338,480	355,320	372,960
Eastern Hills	397,665	410,702	350,177	336,226	329,250 322,890 ⁽²⁾	376,930 310,310 ⁽²⁾	410,000 309,100 ⁽²⁾
Brecon	7,815	7,941	14,535	32,372	41,290 40,970 ⁽²⁾	101,200 43,730 ⁽²⁾	147,680 47,360 ⁽²⁾
Mt. Washington	21,466	29,000	30,854	33,391	34,660	35,160	36,500
Cherry Grove	5,401	10,915	17,335	20,565	22,180 21,900 ⁽²⁾	22,050 21,770 ⁽²⁾	23,530 23,250 ⁽²⁾
California	995	825	495	658	740	760	770
Water West	-	-	-	-	450	10,540 9,460 ⁽²⁾	17,200 16,120 ⁽²⁾
Total	788,925	855,143	814,643	815,081	815,750 808,790 ⁽²⁾	949,310 823,860 ⁽²⁾	1,055,600 853,020 ⁽²⁾
⁽¹⁾ Includes Total Study Area retail and wholesale customers. ⁽²⁾ Service level population residing within Primary Study Area (Hamilton County). ⁽³⁾ Boone-Florence Water Commission population not included.							

ADDITIONAL SUPPORT INFORMATION

For Program Year 2009 (July 1, 2009 through June 30, 2010), applying agencies shall provide the following support information to help determine which projects will be funded. Information on this form must be accurate, and where called for, based on sound engineering principles. Documentation to substantiate the individual items, as noted, is required. The applicant should also use the rating system and its' addendum as a guide. The examples listed in this addendum are not a complete list, but only a small sampling of situations that may be relevant to a given project.

IF YOU ARE APPLYING FOR A GRANT, WILL YOU BE WILLING TO ACCEPT A LOAN IF ASKED BY THE DISTRICT? X YES NO (ANSWER REQUIRED)

Note: Answering "Yes" will not increase your score and answering "NO" will not decrease your score.

1) What is the physical condition of the existing infrastructure that is to be replaced or repaired?

Give a statement of the nature of the deficient conditions of the present facility exclusive of capacity, serviceability, health and/or safety issues. If known, give the approximate age of the infrastructure to be replaced, repaired, or expanded. Use documentation (if possible) to support your statement. Documentation may include (but is not limited to): ODOT BR86 reports, pavement management condition reports, televised underground system reports, age inventory reports, maintenance records, etc., and will only be considered if included in the original application.

Amberly Village and Deer Park are working on a separate SCIP application for the street improvement of East Galbraith Road within the same vicinity. The GCWW project is scheduled to be installed prior to this street improvement and therefore being addressed with this separate application. This replacement water main is in critical condition and must be replaced. See attached maintenance reports for further details of the structural integrity of the water main and information regarding the failed joint material. This water main is primarily being replaced due to documented maintenance problems. The average age of the water main sections being replaced within these limits is 71 years.

2) How important is the project to the safety of the Public and the citizens of the District and/or service area?

Give a statement of the projects effect on the safety of the service area. The design of the project is intended to reduce existing accident rate, promote safer conditions, and reduce the danger of risk, liability or injury. (Typical examples may include the effects of the completed project on accident rates, emergency response time, fire protection, and highway capacity.) Please be specific and provide documentation if necessary to substantiate the data. The applicant must demonstrate the type of problems that exist, the frequency and severity of the problems and the method of correction.

Water main breaks and leaks can cause icy conditions during freezing weather and slippery conditions during warm weather. Water mains are under pressure and in some areas of our system; pressures can reach as high at 250 psi. Water pressure from water main leaks and breaks can cause road pavement to heave causing uneven driving conditions and even damage to vehicles due to accidents. The replacement water main will improve the water flow in the area and help minimize the number of water main breaks and disruption to fire hydrant service. New fire hydrants will be installed on the new main. The new fire hydrants are "break away" such that if someone were to hit the hydrant it would shear off at the base and not offer the vehicle any resistance, which saves lives. This project will also provide improvement for the fire flows which protects residential, commercial and industrial

3) How important is the project to the health of the Public and the citizens of the District and/or service area?

Give a statement of the projects effect on the health of the service area. The design of the project will improve the overall condition of the facility so as to reduce or eliminate potential for disease, or correct concerns regarding the environmental health of the area. (Typical examples may include the effects of the completed project by improving or adding storm drainage or sanitary facilities, etc.). Please be specific and provide documentation if necessary to substantiate the data. The applying agency must demonstrate the type of problems that exist, the frequency and severity of the problems and the method of correction.

The project is important to the health of the Water Works (GCWW) customers. Leaks and breaks cause standing water. The public has become less tolerant to standing water since it provides additional mosquito breeding areas and the potential for West Nile Virus. Water quality is also improved when older lead jointed, unlined cast iron mains are replaced with new cement lined ductile iron pipe assuring that high quality water will continue to be provided. Unlined cast iron water mains corrode internally and "tuberculate". Bacteria/biofilm builds up on the tuberculation. All water mains get a biofilm or bacteria buildup internally. However, tuberculation only occurs within the unlined cast iron water mains. With unlined cast iron pipe the biofilm secretes a chemical which causes tuberculation (rust nodules) to form. Tuberculation reacts with the chlorine in the water so there is less chlorine to kill the bacteria. This depletion of chlorine can cause an increase in bacteria growth. Some of these bacteria can impact human health. The new cement lined water mains installed with our projects decrease the area where the bacteria can grow and increase the amount of chlorine in the public water system thereby improving the quality of our water system.

4) Does the project help meet the infrastructure repair and replacement needs of the applying jurisdiction?

The applying agency must submit a listing in priority order of the projects for which it is applying. Points will be awarded on the basis of most to least importance.

Priority 1 Countywide Water Main Improvements - Phase 2009 (Loan Assistance)
Priority 2 Galbraith Road-Reading to Fontaine (Loan)
Priority 3 _____
Priority 4 _____
Priority 5 _____

5) To what extent will the user fee funded agency be participating in the funding of the project?

(example: rates for water or sewer, frontage assessments, etc.).

The Water Works has provided all of the funding for this project through bond sales or cash reserves.

6) Economic Growth – How will the completed project enhance economic growth

Give a statement of the projects effect on economic growth. (be specific).

This project will have a positive effect on economic growth of the GCWW service area by providing additional, plentiful, high quality water. The newer water main will be more reliable, causing fewer street repairs, maintaining higher quality of roadways with fewer delays due to water main issues. As we continue to upgrade and strengthen our water system, GCWW improves the ability to provide additional capacity to development throughout the City and the County. Our longtime goal has been to create and maintain a strong hydraulic grid such that all property has good pressures and flow to satisfy all reasonable fire and domestic water service demands.

7) Matching Funds - LOCAL

The information regarding local matching funds is to be filed by the applying agency in Section 1.2 (b) of the Ohio Public Works Association's "Application For Financial Assistance" form.

8) Matching Funds - OTHER

The information regarding local matching funds is to be filed by the applying agency in Section 1.2 (c) of the Ohio Public Works Association's "Application For Financial Assistance" form. If MRF funds are being used for matching funds, the MRF application must have been filed by Friday, August 29, 2008 for this project with the Hamilton County Engineer's Office. List below all "other" funding the source(s).

The project will be funded by bond proceeds or GCWW cash reserves.

9) Will the project alleviate serious capacity problems or respond to the future level of service needs of the district?

Describe how the proposed project will alleviate serious capacity problems (be specific).

The project will meet future capacity demands. Because of the size of our water distribution system, this new water main is designed for growth over a 20 year period. All of the 8" water main will be replaced with 12" water thereby increasing water system capacity. The water capacity for the main in Galbraith will increase from one million gallons per day to approximately two million gallons per day. This water main services several large water branches in the City of Reading and this increase in size helps to improve the water source. This proposed 12" water main also will serve as an east-west feed for the distribution hydraulic system. One of GCWW Planning goals is to strengthen the east-west feeds. This project is one of several projects on Galbraith Road either recently completed or coming up in the Capital Improvement program to increase the water main size to 12" water main.

Level of Service (LOS) calculations shall be for the improvements being made in the application. If this project is a phase of a larger project then any preceding phases shall be considered existing conditions for LOS calculations. Any future project phases shall not be considered as part of this applications LOS calculations.

For roadway betterment projects, provide the existing and proposed Level of Service (LOS) of the facility using the methodology outlined within AASHTO'S "Geometric Design of Highways and Streets" and the 1985 Highway Capacity Manual.

No Build

Current Year LOS _____

Design Year LOS _____

Proposed Geometry

Current Year LOS _____

Design Year LOS _____

If the proposed design year LOS is not "C" or better, explain why LOS "C" cannot be achieved.

Not applicable.

10) If SCIP/LTIP funds were granted, when would the construction contract be awarded?

****Not applicable****

If SCIP/LTIP funds are awarded, how soon after receiving the Project Agreement from OPWC (tentatively set for July 1 of the year following the deadline for applications) would the project be under contract? The Support Staff will review status reports of previous projects to help judge the accuracy of a jurisdiction's anticipated project schedule.

Number of months 7

- a.) Are preliminary plans or engineering completed? Yes _____ No X N/A _____
- b.) Are detailed construction plans completed? Yes _____ No X N/A _____
- c.) Are all utility coordination's completed? Yes _____ No X N/A _____
- d.) Are all right-of-way and easements acquired (if applicable)? Yes _____ No _____ N/A X

If no, how many parcels needed for project? _____ Of these, how many are: Takes _____

Temporary _____

Permanent _____

For any parcels not yet acquired, explain the status of the ROW acquisition process for this project.

- e.) Give an estimate of time needed to complete any item above not yet completed. _____ Months.

11) Does the infrastructure have regional impact?

Give a brief statement concerning the regional significance of the infrastructure to be replaced, repaired, or expanded.

This project represents a vital water main project located in Hamilton County. The project consists a "dual service" water main which has customer water service branches but the main has the capacity to move large volumes of water quickly to the higher water demand areas. Sixty five percent of the existing 8" water main is unlined cast iron pipe with lead joints.

Eliminating the unlined cast iron pipe from the water system also helps to minimize the occasions of rusty water and "taste and odor" issues. These situations are decreased because the tuberculated pipes are replaced with cement lined pipes. The internal cement lining prevents internal corrosion to the pipe. The outside of the pipe is wrapped in a polywrap (plastic sheeting) which prevents external corrosion to the pipe. With the structural integrity of the new pipe protected both internally and externally, the pipe is less likely to corrode and have maintenance issues to interrupt water service. We continue to supply a more plentiful supply of high quality water but the new system improvement will also minimize water service interruption and helps to maintain the roadways because there will be decrease maintenance occurrences.

12) What is the overall economic health of the jurisdiction?

The District 2 Integrating Committee predetermines the jurisdiction's economic health. The economic health of a jurisdiction may periodically be adjusted when census and other budgetary data are updated.

13) Has any formal action by a federal, state, or local government agency resulted in a partial or complete ban of the usage or expansion of the usage for the involved infrastructure?

Describe what formal action has been taken which resulted in a ban of the use of or expansion of use for the involved infrastructure? Typical examples include weight limits, truck restrictions, and moratoriums or limitations on issuance of building permits, etc. The ban must have been caused by a structural or operational problem to be considered valid. Submission of a copy of the approved legislation would be helpful.

Not applicable.

Will the ban be removed after the project is completed? Yes _____ No _____ N/A _____

14) What is the total number of existing daily users that will benefit as a result of the proposed project?

For roads and bridges, multiply current Average Daily Traffic (ADT) by 1.20. For inclusion of public transit, submit documentation substantiating the count. Where the facility currently has any restrictions or is partially closed, use documented traffic counts prior to the restriction. For storm sewers, sanitary sewers, water lines, and other related facilities, multiply the number of households in the service area by 4. User information must be documented and certified by a professional engineer or the jurisdictions' C.E.O.

Traffic: ADT _____ X 1.20 = _____ Users

Water/Sewer: Homes _____ X 4.00 = over 17,500 Users

15) Has the jurisdiction enacted the optional \$5 license plate fee, an infrastructure levy, a user fee, or dedicated tax for the pertinent infrastructure?

The applying jurisdiction shall list what type of fees, levies or taxes they have dedicated toward the type of infrastructure being applied for. (Check all that apply)

Optional \$5.00 License Tax X

Infrastructure Levy X Specify type Infrastructure tax (a portion of the earning tax)

Facility Users Fee X Specify type Service charge for water supply

Dedicated Tax _____ Specify type _____

Other Fee, Levy or Tax _____ Specify type _____

**SCIP/LTIP PROGRAM
ROUND 23 - PROGRAM YEAR 2009
PROJECT SELECTION CRITERIA
JULY 1, 2009 TO JUNE 30, 2010**

NAME OF APPLICANT: CITY OF CINCINNATI (GCWW)
NAME OF PROJECT: GALEBORITH ROAD WATER MAIN REPLACEMENT
RATING TEAM: 4

General Statement for Rating Criteria

Points awarded for all items will be based on engineering experience, field verification, application information and other information supplied by the applying agency, which is deemed to be relevant by the Support Staff. The examples listed in this addendum are not a complete list, but only a small sampling of situations that may be relevant to a given project.

CIRCLE THE APPROPRIATE RATING

- 1) What is the physical condition of the existing infrastructure that is to be replaced or repaired?

25 - Failed
→ 23 - Critical
20 - Very Poor
17 - Poor
15 - Moderately Poor
10 - Moderately Fair
5 - Fair Condition
0 - Good or Better

Appeal Score

Criterion 1 - Condition

Condition of the particular infrastructure to be repaired, reconstructed or replaced shall be a measure of the degree of reduction in condition from its original state. Historic pavement management data based on ASTM D6433-99 rating system may be submitted as documentation. Capacity, serviceability, safety and health shall not be considered in this criterion. Any documentation the Applicant wishes to be considered must be included in the application package.

Definitions:

Failed Condition - requires complete reconstruction where no part of the existing facility is salvageable. (E.g. Roads: complete reconstruction of roadway, curbs and base; Bridges: complete removal and replacement of bridge; Underground: removal and replacement of an underground drainage or water system.)

Critical Condition - requires partial reconstruction to maintain integrity. (E.g. Roads: reconstruction of roadway/curbs can be saved; Bridges: removal and replacement of bridge with abutment modification; Underground: removal and replacement of part of an underground drainage or water system.)

Very Poor Condition - requires extensive rehabilitation to maintain integrity. (E.g. Roads: extensive full depth, partial depth and curb repair of a roadway with a structural overlay; Bridges: superstructure replacement; Underground: repair of joints and/or replacement of pipe sections.)

Poor Condition - requires standard rehabilitation to maintain integrity. (E.g. Roads: moderate full depth, partial depth and curb repair to a roadway with no structural overlay needed or structural overlay with minor repairs to a roadway needed; Bridges: extensive patching of substructure and replacement of deck; Underground: insituform or other in ground repairs.)

Moderately Poor Condition - requires minor rehabilitation to maintain integrity. (E.g. Roads: minor full depth, partial depth or curb repairs to a roadway with either a thin overlay or no overlay needed; Bridges: major structural patching and/or major deck repair.)

Moderately Fair Condition - requires extensive maintenance to maintain integrity. (E.g. Roads: thin or no overlay with extensive crack sealing, minor partial depth and/or slurry or rejuvenation; Bridges: minor structural patching, deck repair, erosion control.)

Fair Condition - requires routine maintenance to maintain integrity. (E.g. Roads: slurry seal, rejuvenation or routine crack sealing to the roadway; Bridges: minor structural patching.)

Good or Better Condition - little to no maintenance required to maintain integrity.

Note: If the infrastructure is in "good" or better condition, it will **NOT** be considered for SCIP/LTIP funding unless it is an expansion project that will improve serviceability.

2) How important is the project to the safety of the Public and the citizens of the District and/or service area?

- 25 - Highly significant importance
- 20 - Considerably significant importance
- 15 - Moderate importance
- 10 - Minimal importance
- 5 - Poorly documented importance
- 0 - No measurable impact
- Appeal Score
-

Criterion 2 – Safety

The applying agency shall include in its application the type of deficiency that currently exists and how the intended project would improve the situation. For example, have there been vehicular accidents attributable to the problems cited? Have they involved injuries or fatalities? In the case of water systems, are existing hydrants non-functional? In the case of water lines, is the present capacity inadequate to provide volumes or pressure for adequate fire protection? **In all cases, specific documentation is required.** Mentioned problems, which are poorly documented, generally will not receive more than 5 points.

Note: Each project is looked at on an individual basis to determine if any aspects of this category apply. **Examples given above are NOT intended to be exclusive.**

3) How important is the project to the health of the Public and the citizens of the District and/or service area?

- 25 - Highly significant importance
- 20 - Considerably significant importance
- 15 - Moderate importance
- 10 - Minimal importance
- 5 - Poorly documented importance
- 0 - No measurable impact
- Appeal Score
-

Criterion 3 – Health

The applying agency shall include in its application the type, frequency, and severity of the health problem that would be eliminated or reduced by the intended project. For example, can the problem be eliminated only by the project, or would routine maintenance be satisfactory? If basement flooding has occurred, was it storm water or sanitary flow? What complaints if any are recorded? In the case of underground improvements, how will they improve health if they are storm sewers? How would improved sanitary sewers improve health or reduce health risk? **In all cases, quantified documentation is required.** Mentioned problems, which are poorly documented, generally will not receive more than 5 points.

Note: Each project is looked at on an individual basis to determine if any aspects of this category apply. **Examples given above are NOT intended to be exclusive.**

4) Does the project help meet the infrastructure repair and replacement needs of the applying agency?

Note: Applying agency’s priority listing (part of the Additional Support Information) must be filed with application(s).

- 25 - First priority project
- 20 - Second priority project
- 15 -Third priority project
- 10 - Fourth priority project
- 5 - Fifth priority project or lower
- Appeal Score
-

Criterion 4 – Jurisdiction’s Priority Listing

The applying agency **must** submit a listing in priority order of the projects for which it is applying. Points will be awarded on the basis of most to least importance. The form is included in the Additional Support Information.

- 5) To what extent will a user fee funded agency be participating in the funding of the project?
- 10 – Less than 10%
 9 – 10% to 19.99%
 8 – 20% to 29.99%
 7 – 30% to 39.99%
 6 – 40% to 49.99%
 5 – 50% to 59.99%
 4 – 60% to 69.99%
 3 – 70% to 79.99%
 2 – 80% to 89.99%
 1 – 90% to 95%
 0 – Above 95%
- Appeal Score _____

Criterion 5 – User Fee-funded Agency Participation

To what extent will a user fee funded agency be participating in the funding of the project? (Example: rates for water or sewer, frontage assessments, etc.). The applying agency must submit documentation.

- 6) Economic Growth – How the completed project will enhance economic growth (See definitions).

- 10 – The project will directly secure new employment
 5 – The project will permit more development
 0 – The project will not impact development
- Appeal Score _____

Criterion 6 – Economic Growth

Will the completed project enhance economic growth and/or development **referred to as development?**

Definitions:

Secure new employment: The project as designed will secure development/employers, which will immediately add new permanent employees **to the project site.** The applying agency must submit details.

Permit more development: The project as designed will permit additional business development/employment. The applying agency must supply details.

The project will not impact development: The project will have no impact on business development.

Note: Each project is looked at on an individual basis to determine if any aspects of this category apply.

- 7) Matching Funds - **LOCAL**

- 10 – This project is a loan or credit enhancement

10 – 50% or higher

8 – 40% to 49.99%

6 – 30% to 39.99%

4 – 20% to 29.99%

2 – 10% to 19.99%

0 – Less than 10%

List total percentage of "Local" funds _____%

Criterion 7 – Matching Funds – Local

The percentage of matching funds which come directly from the budget of the applying agency. Ten points shall be awarded if a loan request is at least 50% of the total project cost. (If the applying agency is not a user fee funded agency, any funds to be provided by a user fee generating agency will be considered "Matching Funds – Other").

8) Matching Funds – OTHER List total percentage of “Other” funds 0 %

- 10 – 50% or higher
- 8 – 40% to 49.99%
- 6 – 30% to 39.99%
- 4 – 20% to 29.99%
- 2 – 10% to 19.99%
- 1 – 1% to 9.99%
- 0 – Less than 1%

List below each funding source and percentage

_____	_____ %
_____	_____ %
_____	_____ %
_____	_____ %
_____	_____ %

Criterion 8 – Matching Funds - Other
The percentage of matching funds that come from funding sources other than those mentioned in Criterion 7. A letter from the outside funding agency stating their financial participation in the project and the amount of funding is required to receive points. For MRF, a copy of the current application form filed with the Hamilton County Engineer’s Office meets the requirement.

9) Will the project alleviate serious capacity problems or hazards or respond to the future level of service needs of the district?

- 10 - Project design is for future demand.

→ 8 - Project design is for partial future demand. ?

6 - Project design is for current demand.

4 - Project design is for minimal increase in capacity.

0 - Project design is for no increase in capacity.
- Appeal Score

Criterion 9 – Alleviate Capacity Problems
The applying agency shall provide a narrative, along with pertinent support documentation, which describe the existing deficiencies and showing how congestion will be reduced or eliminated and how service will be improved to meet the needs of any expected growth or development. A formal capacity analysis must accompany the application to receive more than 4 points. Projected traffic or demand should be calculated as follows:

Formula:
Existing volume x design year factor = projected volume

Design Year	Design year factor		
	Urban	Suburban	Rural
20	1.40	1.70	1.60
10	1.20	1.35	1.30

- Definitions:**
- Future demand** – Project will eliminate existing congestion or deficiencies and will provide sufficient capacity or service for twenty-year projected demand or fully developed area conditions. Justification must be supplied if the area is already largely developed or undevelopable and thus the projection factors used deviate from the above table.
- Partial future demand** – Project will eliminate existing congestion or deficiencies and will provide sufficient capacity or service for ten-year projected demand or partially developed area conditions. Justification must be supplied if the area is already largely developed or undevelopable and thus the projection factors used deviate from the above table.
- Current demand** – Project will eliminate existing congestion or deficiencies and will provide sufficient capacity or service only for existing demand and conditions.
- Minimal increase** – Project will reduce but not eliminate existing congestion or deficiencies and will provide a minimal but less than sufficient increase in existing capacity or service for existing demand and conditions.
- No increase** – Project will have no effect on existing congestion or deficiencies and provide no increase in capacity or service for existing demand and conditions.

10) Readiness to Proceed - If SCIP/LTIP funds are granted, when would the construction contract be awarded?

- 5 - Will be under contract by December 31, 2009 and no delinquent projects in Rounds 20 & 21
- 3 - Will be under contract by March 31, 2010 and/or one delinquent project in Rounds 20 & 21
- 0 - Will not be under contract by March 31, 2010 and/or more than one delinquent project in Rounds 20 & 21

Criterion 10 – Readiness to Proceed

The Support Staff will assign points based on engineering experience and status of design plans. A project is considered delinquent when it has not received a notice to proceed within the time stated on the original application and no time extension has been granted by the OPWC. An applying agency receiving approval for a project and subsequently canceling the same after the bid date on the application will receive zero (0) points under this round and the following round.

11) Does the infrastructure have regional impact? Consider origination and destination of traffic, functional classifications, size of service area, and number of jurisdictions served, etc.

- 10 – Major Impact
- 8 – Significant Impact
- 6 – Moderate Impact
- 4 – Minor Impact
- 2 – Minimal or No Impact

Appeal Score

Criterion 11 - Regional Impact

The regional significance of the infrastructure that is being repaired or replaced.

Definitions:

Major Impact – Roads: Major Arterial: A direct connector to an Interstate Highway; Arterials are intended to provide a greater degree of mobility rather than land access. Arterials generally convey large traffic volumes for distances greater than one mile. A major arterial is a highway that is of regional importance and is intended to serve beyond the county. It may connect urban centers with one another and/or with outlying communities and employment or shopping centers. A major arterial is intended primarily to serve through traffic.

Significant Impact – Roads: Minor Arterial: A roadway, also serving through traffic, that is similar in function to a major arterial, but operates with lower traffic volumes, serves trips of shorter distances (but still greater than one mile), and may provide a higher degree of property access than do major arterials.

Moderate Impact – Roads: Major Collector: A roadway that provides for traffic movement between local roads/streets and arterials or community-wide activity centers and carries moderate traffic volumes over moderate distances (generally less than one mile). Major collectors may also provide direct access to abutting properties, such as regional shopping centers, large industrial parks, major subdivisions and community-wide recreational facilities, but typically not individual residences. Most major collectors are also county roads and are therefore through streets.

Minor Impact – Roads: Minor Collector: A roadway similar in functions to a major collector but which carries lower traffic volumes over shorter distances and has a higher degree of property access. Minor collectors may serve as main circulation streets within large, residential neighborhoods. Most minor collectors are also township roads and streets and may, or may not, be through streets.

Minimal or No Impact – Roads: Local: A roadway that is primarily intended to provide access to abutting properties. It tends to accommodate lower traffic volumes, serves short trips (generally within neighborhoods), and provides connections preferably only to collector streets rather than arterials.

12) What is the overall economic health of the jurisdiction?

10 Points

8 Points

6 Points

4 Points

2 Points

Criterion 12 – Economic Health

The District 2 Integrating Committee predetermines the applying agency's economic health. The economic health of a jurisdiction may periodically be adjusted when census and other budgetary data are updated.

13) Has any formal action by a federal, state, or local government agency resulted in a partial or complete ban of the usage or expansion of the usage for the involved infrastructure?

10 - Complete ban, facility closed

Appeal Score

8 – 80% reduction in legal load or 4-wheeled vehicles only

7 – Moratorium on future development, *not* functioning for current demand

6 – 60% reduction in legal load

5 - Moratorium on future development, functioning for current demand

4 – 40% reduction in legal load

2 – 20% reduction in legal load

0 – Less than 20% reduction in legal load

Criterion 13 - Ban

The applying agency shall provide documentation to show that a facility ban or moratorium has been formally placed. The ban or moratorium must have been caused by a structural or operational problem. Points will only be awarded if the end result of the project will cause the ban to be lifted.

14) What is the total number of existing daily users that will benefit as a result of the proposed project?

10 - 30,000 or more

Appeal Score

8 - 21,000 to 29,999

6 - 12,000 to 20,999

4 - 3,000 to 11,999

2 - 2,999 and under

Criterion 14 - Users

The applying agency shall provide documentation. A registered professional engineer or the applying agency's C.E.O must certify the appropriate documentation. Documentation may include current traffic counts, households served, when converted to a measurement of persons. Public transit users are permitted to be counted for the roads and bridges, but only when certifiable ridership figures are provided.

15) Has the applying agency enacted the optional \$5 license plate fee, an infrastructure levy, a user fee, or dedicated tax for the pertinent infrastructure? (*Provide documentation of which fees have been enacted.*)

5 - Two or more of the above

Appeal Score

3 - One of the above

0 - None of the above

Criterion 15 – Fees, Levies, Etc.

The applying agency shall document (in the "Additional Support Information" form) which type of fees, levies or taxes they have dedicated toward the type of infrastructure being applied for.

Underground Report

House No. & Street: GALBRAITH + RIDGE

Neighborhood: AMBERLY VILLAGE

Report No. 1-16-94

Location: S. SIDE GALBRAITH 11.6' W. OF CH. OF RIDGE

Date 1-16-94

Pipe Size: 6" O.D.: 6.2" Depth: 6.2" Cement Lined - Y/N Polywrapped - Y/N

Main to Box, Nearest Branch: House No. & Street: _____

Main to C/L: 11.6' W

I. Existing Conditions/Materials: (Circle no more than two in each category)

Pavement Types	Excavated Material	Pipe Material	Joint Types	Pipe Condition-Outside	Branch Material
1 Concrete	1 Bank Run/Gravel	1 Cast Iron	1 Lead	01 Badly Pitted	1 Copper
2 Block Paved	2 Cinders	2 Steel	2 Mechanical Joint	02 Pitted	2 Lead
3 Asphalt/Concrete	3 Rock	3 Ductile Iron	3 Leadite	03 Smooth	3 Galvanized Steel/Black Iron
4 Asphalt/Stone (mac)	4 Clay	4 Concrete	4 Compression Joint	04 Not Visible	4 Brass
5 Low Type (gravel)	5 Fill	5 Asbestos Cement (Transite)	5 Flange	05 Other-See Below	5 Plastic
6 Sod	6 Dirt	6 Copper	6 Not Visible	Pipe Condition-Inside	6 Cast Iron
7 Sidewalk	7 Sandy Soil	7 Plastic	7 Other-See Below	11 Heavy Tuberculation	7 Ductile Iron
8 Driveway	8 Other-See Below	8 Not Visible		12 Medium Tuberculation	8 Does Not Apply
9 Other-See Below	9 Other-See Below	9 Other-See Below		13 Light Tuberculation	9 Other-See Below
Cut Size: <u>3" X 1"</u>				14 No Tuberculation	
				15 Not Visible	
				16 Other-See Below	

II. Utilities In Excavation: (Circle one) 0 None 1 Sewer 2 Gas 3 Electric 4 Telephone 5 T.V. Cable 6 Car Rails 7 Other _____

Measurements: (Sketch on back — Y/N) _____

III. Maintenance: (Circle one) 1 Break 2 Leak - Joint, Valve, Fire Hydrant, Branch 3 New Installation* 4 Abandonment* (*Drawing on back — Y/N)

(Circle One Leak Type and One Repair Type From The Following Categories)

Main Break/Leak Type	Valve Leak Type	Fire Hydrant Leak Type	Branch Leak Type
11 Circular Crack	21 Stuffing Box	31 Inside Lead Leak	41 Ferrule
12 Longitudinal Crack	22 Bonnet Bolts	32 Outside Lead Leak	42 Stop Cock
13 Bell Crack	23 Defective Valve	33 Hydrant Valve	43 Inside Pipe Leak
14 Corrosion Hole	29 Other-See Below	39 Other-See Below	44 Outside Pipe Leak
15 Rusted Bolts			45 Service Saddle
16 Bad Gasket/Jt. material			49 Other-See Below
Main/Leak Repair Type	Valve Repair Type	Fire Hydrant Repair Type	Branch Repair Type
01 Caulk Joint	01 Replace Existing Valve	01 Renew Existing Lead	01 Repair
02 Caulk & Clamp Joint	02 Replace Cap	02 Replace Existing F.H. Valve	02 Replace
03 Leak Clamp	03 Replace Bonnet/Stem	03 Replace Existing F.H. Valve & Lead	03 Disconnect
04 Pipe & Coupling	04 Bolt Replacement	*90 Install New F.H., Lead and Valve	*90 New Branch Installation
05 Repair Lead	*98 Abandon Pipe/Fitting	*98 Abandon F.H., Lead and Valve	*98 Abandon Branch
06 Replace Bolts	*99 Other-See Below	99 Other-See Below	99 Other-See Below
07 Replace fitting/cplg.			
08 Tighten Coupling			

Structure: _____ Code: _____

Remarks/Other: FOUND 6" MLV BONNET OFF VALVE. REPLACED 6" MLV.
USED 1-6" C.I. VALVE, 3-6" DTP. 2-6" PIPE COUPLINGS

UNDERGROUND REPORT

CHECK ONE

HOUSE NO. & STREET 64 ALBERTA RD. & CROSS COUNTRY HWY DATE 5-26-84

PERMIT NO. _____ LOCATION SEE SKETCH ON BACK

CREW NO. WALLACE

MAIN TO BOX NEAREST BRANCH _____ (House No.) _____ MAIN TO C/L _____ (Direction) _____ PIPE SIZE 12"

PAVING MAC. 8.5' x 9.1 DEPTH 2' 10" O.D. _____

TYPE OF PIPE & JOINT CAST IRON - TYTON JT

SOIL CONDITION (Circle One) - Bank Run - Cinders - Rock - (Clay) - Fill - Dirt - Other _____

PIPE CONDITION (Circle One) - Outside - Badly Pitted - Pitted - (Smooth) - Other _____

Inside: Tuberculation - Heavy - Medium - Light - (None)

Cement Lined: - (Yes) No Irregular Wall Thickness: Yes No

LOCATION OF OTHER UTILITIES IN EXCAVATION 12" GAS MAIN (SEE SKETCH) UNDER W.M.

REASON FOR EXCAVATION - Branch Installation (Size) _____ Connection (Size & Type) _____

Service Branch Leak (Circle One) - Tapping Saddle - Ferrule - Curb Cock - Other _____

Service Branch Material (Circle One) - Copper - Lead - Brass - Other _____

Main Break (Circle One) Clr. Crack - Long crack - Bell Crack - Spigot Crack - Other 2' x 6" P.C. OUT OF HUB & PIPE

Main	Date	Time
Off		
On		

Was there construction in area? Yes No By whom? _____ Extent of damage _____

Other reason for exc. 12" M.L.L.

Remarks (Include type of repair; descr. of break) FOUND TYTON JT. BROKEN VERY BAD TO GET DOWN

12" GAS MAIN, CUT OUT PIPE REPAIRED WITH 1-12" 11 1/4" BEND M.J., 1-PC. 12" O.I.P.

12" LONG, 1-12" DRESSER COCK, 1-PC. PLASTIC

Foreman: Becker Redel

Use other side for sketch if necessary. Check here ☐

UNDERGROUND REPORT

CHECK ONE

HOUSE NO. & STREET E. CALABRITA @ E-71 DATE 1/4/88

PERMIT NO. 172' West of 1st E. Hwy

CREW NO. BAWES East of E-71 overpass

MAIN TO BOX NEAREST BRANCH (House No.) MAIN TO C/L 20' (Direction) S PIPE SIZE 8"

PAVING Grass DEPTH 4'2" O.D. —

TYPE OF PIPE & JOINT CAST IRON PIPE JOINT WPT EXCESS

SOIL CONDITION (Circle One) - Bank Run - Cinders - Rock - Clay - Fill - Dirt - Other —

PIPE CONDITION (Circle One) - Outside:- Badly Pitted - Pitted - Smooth - Other —

Inside: Tuberculation - Heavy - Medium - Light - None

1/4 Cement Lined:- Yes No Irregular Wall Thickness: Yes No

LOCATION OF OTHER UTILITIES IN EXCAVATION None

REASON FOR EXCAVATION - Branch Installation (Size) — Connection (Size & Type) —

Service Branch Leak (Circle One) - Tapping Saddle - Ferrule - Curb Cock - Other

Service Branch Material (Circle One) - Copper - Lead - Brass - Other

Main Break (Circle One) Clr. Crack Long crack - Bell Crack - Split Crack -

Other —

Was there construction in area? Yes No By whom? — Extent of damage —

Remarks (Include type of repair; descr. of break) 8" C/L CRACK INSTALLED A

8" PVC CIRCLES LEAK CLAMP - PLASTIC ENCLOSURE

CHECK ONE			
L E A K			
Joint	<u>Pipe</u>	Branch	
N E W		W O R K	
Branch	Install.	Conn.	Other

Main	Date	Time
Off		
On		

Use other side for sketch if necessary. Check here ☐

Foreman: W. M. Brown

LOCATION 54' W 15th E Harvest Ln CREW ID Wallace
MAIN TO BOX NEAREST BR. 9' HOUSE No. 2465 MAIN TO C/L 9' DIRECTION S

REPAIR TYPE: 2 PAVEMENT TYPE 3 EXCAVATED MATERIAL 1

CIRCULAR CRACK

MAIN BREAK: (Y)/N PIPE MATERIAL 1 JOINT TYPE 1 MAIN LEAK TYPE 1
PIPE SIZE 8" O.D. 4 1/2" PIPE COND.: 0.1 INSIDE 0.1
CEMENT LINED: Y/N POLY WRAPPED: Y/N VALVE LEAK 1

SERVICE BRANCH BREAK: Y/N BRANCH MATERIAL 1 BRANCH LEAK TYPE 1
BRANCH: SIZE 1" DEPTH 1"

REPAIR: MANHOURS 1 COST \$183.30 RESTORATION: MANHOURS 1 COST 1

INSTALLATION TYPE: 1 FIRE HYDRANT: Y/N SERVICE BRANCH: Y/N

BRANCH SIZE 1" CONNECTION (SIZE & TYPE) 1"

LOCATION OF OTHER UTILITIES IN EXCAVATION line for 2464 8" (3/4") E of line for 2465 (1")

CONSTRUCTION IN AREA: Y/N BY WHOM? 1

REMARKS Circle Crack at branch installed 8" Leak Clamp with 1" boss used 1" female 2' 1" Copper 1-1" Copper to Copper

Poly wire tied
IF BOX IS CHECKED SEE SKETCH ON OTHER SIDE ☐ FIELD SUPPLY 1

YEAR PIPE INSTALLED 1 SOIL: TYPE 1 PH: 1 CORROSION 1

POLITICAL SUBD. 1 S.A. 1 TRACT 1 BLOCK 1 FACE 1

PIPE SEGMENT NO. 1 N COORD. 1 E COORD. 1

UNDERGROUND REPORT

CHECK ONE

HOUSE NO. & STREET 2333 E Cal/Barth RD DATE 2-6-86

PERMIT NO. _____ LOCATION 311.6 W of 2nd E.H. W of

CREW NO. Leavis May Crest 2.3 W of 3 curbs

L E A K		
<input checked="" type="checkbox"/> Joint	Pipe	Branch
N E W W O R K		
Branch Install.	Conn.	Other

MAIN TO BOX NEAREST BRANCH 35.4 (House No.) 127 MAIN TO C/L 127 (Direction) S PIPE SIZE 8"

PAVING Asphalt Granite Asphalt DEPTH 4.9 O.D. _____

TYPE OF PIPE & JOINT Cast Iron Leadite Look E up 11.7

SOIL CONDITION (Circle One) - Bank Run - Cinders - Rock - Clay - Fill - Dirt - Other _____

PIPE CONDITION (Circle One) - Outside - Badly Pitted - Pitted - Smooth - Other _____

Inside: Tuberculation - Heavy - Medium - Light - None

Cement Lined: - Yes No Irregular Wall Thickness: Yes No

LOCATION OF OTHER UTILITIES IN EXCAVATION None in Cat

REASON FOR EXCAVATION - Branch Installation (Size) _____ Connection (Size & Type) _____

Main	Date	Time
Off		
On		

Service Branch Leak (Circle One) - Tapping Saddle - Ferrule - Curb Cock - Other _____
 Service Branch Material (Circle One) - Copper - Lead - Brass - Other _____
 Main Break (Circle One) Cir. Crack - Long crack - Bell Crack - Spigot Crack - Other _____

Was there construction in area? Yes No By whom? _____ Extent of damage None
 Other reason for exc. _____

Remarks (Include type of repair; descr. of break) Found Leadite JT Leak Remove

Leavit Hub & Wessel in 2' of 8" DI Pipe

white digging on them hit 3/4" cap line to 328' depth

were tapped high above spring line

Foreman: [Signature]

Use other side for sketch if necessary. Check here ☐

1/2" of pipe 2 months

13/000

Underground Report

Report No. _____

Date 1-23-94

Neighborhood: Amberly Village

House No. & Street: 2344 E. Colbrath

Permit No. _____

Crew Ticket No. _____

Location: Lot 4.8' E of 2nd St. W of Ridge

Pipe Size: 8" O.D.: 5.0' Depth: 5.0' Cement Lined - Y/N ☒ Polywrapped - Y/N ☒

Main to Box, Nearest Branch: _____ House No. & Street: _____ Main to C/I: 2.2

I. Existing Conditions/Materials: (Circle no more than two in each category)

Pavement Types		Excavated Material		Pipe Material		Joint Types		Pipe Condition-Outside		Branch Material	
1 Concrete	<input checked="" type="checkbox"/> Bank Run/Gravel	<input checked="" type="checkbox"/> Cast Iron	1 Lead	01 Badly Pitted	1 Copper	2 Block Paved	2 Steel	02 Pitted	2 Lead	3 Galvanized Steel/Black Iron	
3 Asphalt/Concrete	<input checked="" type="checkbox"/> Rock	3 Ductile Iron	3 Leadite	03 Smooth	4 Brass	4 Asphalt/Stone (mac)	4 Clay	04 Not Visible	5 Plastic		
5 Low Type (gravel)	5 Fill	4 Concrete	4 Compression Joint	05 Other-See Below	6 Cast Iron	6 Sod	5 Asbestos Cement (Transite)	06 Other-See Below	7 Ductile Iron		
7 Sidewalk	<input checked="" type="checkbox"/> Dirt	5 Copper	5 Flange	<input checked="" type="checkbox"/> Not Visible	8 Does Not Apply	8 Driveway	6 Copper	07 Heavy Tuberculation	9 Other-See Below		
9 Other-See Below	7 Sandy Soil	7 Plastic	7 Other-See Below	16 Other-See Below		9 Other-See Below	8 Not Visible	12 Medium Tuberculation			
Cut Size: <u>8x8</u>	8 Other-See Below	8 Not Visible					9 Other-See Below	13 Light Tuberculation			
		9 Other-See Below						14 No Tuberculation			
								15 Not Visible			
								16 Other-See Below			

II. Utilities In Excavation: (Circle) 0 None 1 Sewer 2 Gas 3 Electric 4 Telephone 5 T.V. Cable 6 Car Rails 7 Other

Measurements: (Sketch on back — Y/N) UNKNOWN Main 2' softum. 1' deep

III. Maintenance: (Circle one) ☒ Break ☐ 2 Leak - Joint, Valve, Fire Hydrant, Branch ☐ 3 New Installation* ☐ 4 Abandonment* (*Drawing on back — Y/N)

(Circle One Leak Type and One Repair Type From The Following Categories)

Main Break/Joint Leak Type	
11 Circular Crack	17 Coupling/Clamp
12 Longitudinal Crack	18 WWC
13 Bell Crack	19 Other-See Below
14 Corrosion Hole	
15 Rusted Bolts	
16 Bad Gasket/Jt. material	
Main/Joint Repair Type	
01 Caulk Joint	
02 Caulk & Clamp Joint	
03 Leak Clamp	*90 Install New Pipe/Fitting
04 Pipe & Coupling	*98 Abandon Pipe/Fitting
05 Repair Lead	99 Other-See Below
06 Replace Bolts	
07 Replace fitting/cplg.	
08 Tighten Coupling	

Valve Leak Type	
21 Stuffing Box	
22 Bonnet Bolts	
23 Defective Valve	
29 Other-See Below	
Valve Repair Type	
01 Replace Existing Valve	
02 Replace Cap	
03 Replace Bonnet/Stem	
04 Bolt Replacement	*90 Install, "Cut In"
05 Repack Stuffing Box	New Valve
06 Replace Seal Plate	*98 Abandon Valve
07 Replace Stem	99 Other-See Below
08 Replace Gears	

Fire Hydrant Leak Type	
31 Inside Lead Leak	
32 Outside Lead Leak	
33 Hydrant Valve	
39 Other-See Below	
Fire Hydrant Repair Type	
01 Renew Existing Lead	
02 Replace Existing F.H. Valve	
03 Replace Existing F.H. Valve & Lead	
*90 Install New F.H., Lead and Valve	
*98 Abandon F.H., Lead and Valve	
99 Other-See Below	

Branch Leak Type	
41 Ferrule	
42 Stop Cock	
43 Inside Pipe Leak	
44 Outside Pipe Leak	
45 Service Saddle	
49 Other-See Below	
Branch Repair Type	
01 Repair	
02 Replace	
03 Disconnect	
*90 New Branch Installation	
*98 Abandon Branch	
99 Other-See Below	

Structure: _____ Code: _____

Remarks/Other: 1-8" Leak Clamp

CINCINNATI WATER WORKS REPAIR UNDERGROUND REPORT

HOUSE NO. 2401 DIR. — STREET East Galbraith Rd TYPE Rd DATE 12-11-88
LOCATION East Galbraith Rd 124' west of 1st FH. East Maycrest CREW ID Maloney
MAIN TO BOX NEAREST BR. NA HOUSE NO. — MAIN TO C/L 7.5' DIRECTION South

REPAIR TYPE: 2 PAVEMENT TYPE 3 EXCAVATED MATERIAL 4

MAIN BREAK: Y/ND PIPE MATERIAL 1 JOINT TYPE NA MAIN LEAK TYPE CIRCULAR CRACK
PIPE: SIZE 8" O.D. — DEPTH 60" PIPE COND.: OUTSIDE 0-2 INSIDE NA
CEMENT LINED: Y/NA POLY WRAPPED: Y/ND VALVE LEAK None

SERVICE BRANCH BREAK: Y/ND BRANCH MATERIAL — BRANCH LEAK TYPE —
BRANCH: SIZE — DEPTH —

REPAIR: MANHOURS — COST — RESTORATION: MANHOURS — COST —

INSTALLATION TYPE: FIRE HYDRANT: Y/ND SERVICE BRANCH: Y/ND

BRANCH SIZE — CONNECTION (SIZE & TYPE) —
LOCATION OF OTHER UTILITIES IN EXCAVATION None

CONSTRUCTION IN AREA: Y/ND BY WHOM? None
REMARKS Circular crack on 8" m. Installed 1-8" Full Circle leak clamp and 1-5'x7' Sheet piling

IF BOX IS CHECKED SEE SKETCH ON OTHER SIDE ☐ FIELD SUPRV. C. O'H

YEAR PIPE INSTALLED — SOIL: TYPE — PH — CORROSION —
POLITICAL SUBD. — S.A. — TRACT — BLOCK — FACE —
PIPE SEGMENT NO. — N COORD. — E COORD. —
WATER: TEMP. — PRESS — OVRD USE. — CITY —

Underground Report

Report No. _____

House No. & Street: 2416 GALE BRATH RD

Neighborhood: Amely Village

Date 1-7-99

Location: 107' N. of 1st MLV S. of Maryland

Permit No. _____

Crew Ticket No. _____

Pipe Size: 8" O.D.: 6" Depth: 6' Cement Lined - Y/N U Polywrapped - Y/N U

Main to Box, Nearest Branch: _____ House No. & Street: _____ Main to C/L: 7' 6" W

I. Existing Conditions/Materials: (Circle no more than two in each category)

Pavement Types

Excavated Material

Pipe Material

Joint Types

Pipe Condition-Outside

Branch Material

- | | | | | | |
|--------------------------|-------------------|------------------------------|---------------------|-------------------------|-------------------------------|
| 1 Concrete | 1 Bank Run/Gravel | 1 Cast Iron | 1 Lead | 01 Badly Pitted | 1 Copper |
| 2 Block Paved | 2 Chinders | 2 Steel | 2 Mechanical Joint | 02 Pitted | 2 Lead |
| 3 Asphalt/Concrete | 3 Rock | 3 Ductile Iron | 3 Leadite | 03 Smooth | 3 Galvanized Steel/Black Iron |
| 4 Asphalt/Stone (mac) | 4 Clay | 4 Concrete | 4 Compression Joint | 04 Not Visible | 4 Brass |
| 5 Low Type (gravel) | 5 Fill | 5 Asbestos Cement (Transite) | 5 Flange | 05 Other-See Below | 5 Plastic |
| 6 Sod | 6 Dirt | 6 Copper | 6 Not Visible | Pipe Condition-Inside | 6 Cast Iron |
| 7 Sidewalk | 7 Sandy Soil | 7 Plastic | 7 Other-See Below | 11 Heavy Tuberculation | 7 Ductile Iron |
| 8 Driveway | 8 Other-See Below | 8 Not Visible | | 12 Medium Tuberculation | 8 Does Not Apply |
| 9 Other-See Below | | 9 Other-See Below | | 13 Light Tuberculation | 9 Other-See Below |
| Cut Size: <u>4' X 7'</u> | | | | 14 No Tuberculation | |
| | | | | 15 Not Visible | |
| | | | | 16 Other-See Below | |

II. Utilities In Excavation: (Circle 0 None 1 Sewer 2 Gas 3 Electric 4 Telephone 5 T.V. Cable 6 Car Rails 7 Other _____)

Measurements: (Sketch on back - Y/N) _____

III. Maintenance: (Circle one) 1 Break 2 Leak - Joint, Valve, Fire Hydrant, Branch 3 New Installation* 4 Abandonment* (*Drawing on back - Y/N)

(Circle One Leak Type and One Repair Type From The Following Categories)

Main Break/Leak Type

Valve Leak Type

Fire Hydrant Leak Type

Branch Leak Type

- 11 Circular Crack
- 12 Longitudinal Crack
- 13 Bell Crack
- 14 Corrosion Hole
- 15 Rusted Bolts
- 16 Bad Gasket/jt. material
- 17 Coupling/Clamp
- 18 WWC
- 19 Other-See Below

- 21 Stuffing Box
- 22 Bonnet Bolts
- 23 Defective Valve
- 29 Other-See Below

- 31 Inside Lead Leak
- 32 Outside Lead Leak
- 33 Hydrant Valve
- 39 Other-See Below

- 41 Ferrule
- 42 Stop Cock
- 43 Inside Pipe Leak
- 44 Outside Pipe Leak
- 45 Service Saddle
- 49 Other-See Below

Main/Leak Repair Type

Valve Repair Type

Fire Hydrant Repair Type

Branch Repair Type

- 01 Caulk Joint
- 02 Caulk & Clamp Joint
- 03 Leak Clamp
- 04 Pipe & Coupling
- 05 Repair Lead
- 06 Replace Bolts
- 07 Replace fitting/cplg.
- 08 Tighten Coupling
- 90 Install New Pipe/Fitting
- 98 Abandon Pipe/Fitting
- 99 Other-See Below

- 01 Replace Existing Valve
- 02 Replace Cap
- 03 Replace Bonnet/Stem
- 04 Bolt Replacement
- 05 Repack Stuffing Box
- 06 Replace Seal Plate
- 07 Replace Stem
- 08 Replace Gears
- 90 Install, "Cut In"
- 98 Abandon Valve
- 99 Other-See Below

- 01 Renew Existing Lead
- 02 Replace Existing F.H. Valve
- 03 Replace Existing F.H. Valve & Lead
- 90 Install New F.H., Lead and Valve
- 98 Abandon F.H., Lead and Valve
- 99 Other-See Below

- 01 Repair
- 02 Replace
- 03 Disconnect
- 90 New Branch Installation
- 98 Abandon Branch
- 99 Other-See Below

Structure: _____

Structure: _____

Structure: _____

Structure: _____

Code: _____

Code: _____

Code: _____

Code: _____

Remarks/Other: Found crack around on pipe, installed 8" Lead Clamp

Underground Report

Report No. 2417 E. GARBAATH RD
Date 2.23.9Neighborhood: SAVINGHouse No. & Street: 2417 E. GARBAATH RDPermit No. SAVINGCrew Ticket No. 8.0' W.Location: ON E. GARBAATH, 37' N 15H S. Mary CrestPipe Size: 8" O.D.: 27' Depth: 58"Cement Lined - NU Polywrapped - YNUMain to Box, Nearest Branch: 27' House No. & Street: 2420 E. GARBAATH RD.Main to C/L: 8.0' W.

I. Existing Conditions/Materials: (Circle no more than two in each category)

Pavement Types	Excavated Material	Pipe Material	Joint Types	Pipe Condition-Outside	Branch Material
1 Concrete	<input checked="" type="radio"/> Bank Run/Gravel	<input checked="" type="radio"/> Cast Iron	1 Lead	01 Badly Pitted	<input checked="" type="radio"/> Copper 1" Be <u>185592</u>
2 Block Paved	2 Cinder	2 Steel	2 Mechanical Joint	<input checked="" type="radio"/> Pitted	2 Lead
3 Asphalt/Concrete	3 Rock	3 Ductile Iron	3 Leadite	03 Smooth	3 Galvanized Steel/Black Iron
<input checked="" type="radio"/> Asphalt/Stone (mac)	<input checked="" type="radio"/> Clay	4 Concrete	4 Concrete	04 Not Visible	4 Brass
5 Low Type (gravel)	5 Fill	5 Asbestos Cement (Transite)	5 Flange	05 Other-See Below	5 Plastic
6 Sod	6 Dirt	6 Copper	6 Not Visible	<input checked="" type="radio"/> Other-See Below	6 Cast Iron
7 Sidewalk	7 Sandy Soil	7 Plastic	8 Not Visible	11 Heavy Tuberculation	7 Ductile Iron
8 Driveway	8 Other-See Below	8 Not Visible	9 Other-See Below	<input checked="" type="radio"/> Medium Tuberculation	8 Does Not Apply
9 Other-See Below		9 Other-See Below		13 Light Tuberculation	9 Other-See Below
Cut Size: <u>7x5'</u>				No Tuberculation	
				12 Not Visible	
				16 Other-See Below	

II. Utilities In Excavation: (Circle) ☒ None ☒ Sewer ☒ Gas ☒ Electric ☒ Telephone ☒ T.V. Cable ☒ Car Rails ☒ Other G.M. 3.0' E of EAST curbMeasurements: (Sketch on back - Y/N) YIII. Maintenance: (Circle one) ☒ Break ☒ Leak ☒ Joint, Valve, Fire Hydrant, Branch ☒ New Installation* ☒ Abandonment* (*Drawing on back - Y/N)

(Circle One Leak Type and One Repair Type From The Following Categories)

Main Break/Leak Type	Valve Leak Type	Fire Hydrant Leak Type	Branch Leak Type
11 Circular Crack	21 Stuffing Box	31 Inside Lead Leak	41 Ferrule
12 Longitudinal Crack	22 Bonnet Bolts	32 Outside Lead Leak	42 Stop Cock
13 Bell Crack	<input checked="" type="radio"/> Coupling/Clamp	33 Hydrant Valve	43 Inside Pipe Leak
14 Corrosion Hole	18 WWC	39 Other-See Below	44 Outside Pipe Leak
15 Rusted Bolts			45 Service Saddle
16 Bad Gasket/Jt. material			49 Other-See Below
Main/Leak Repair Type	Valve Repair Type	Fire Hydrant Repair Type	Branch Repair Type
01 Caulk Joint	01 Replace Existing Valve	01 Renew Existing Lead	01 Repair
02 Caulk & Clamp Joint	02 Replace Cap	02 Replace Existing F.H. Valve	02 Replace
03 Leak Clamp	03 Replace Bonnet/Stem	03 Replace Existing F.H. Valve & Lead	03 Disconnect
<input checked="" type="radio"/> Pipe & Coupling	*90 Install New Pipe/Fitting	*90 Install New F.H. Lead and Valve	*90 New Branch Installation
04 Repair Lead	*98 Abandon Pipe/Fitting	*98 Abandon F.H., Lead and Valve	*98 Abandon Branch
05 Replace Bolts	99 Other-See Below	99 Other-See Below	99 Other-See Below
07 Replace fitting/cplg.			
08 Tighten Coupling			

Structure: _____	Structure: _____	Structure: _____
Code: _____	Code: _____	Code: _____

Remarks/Other: (2) Old 8" Pipe Couplings leaking w/ 1" branch in middle. Removed couplings and installed 8" dia. 26" long (PEX) 1 (2) 8" pipe couplings, plus polywrap (1) 1" ferrule

Underground Report

House No. & Street: 2425 E. Galbraith Rd. Neighborhood: Reading Report No. 5/23/03
 Location: 135' W of 1st MLV E of Vinca Dr. Permit No. HA0030687 Date 5/23/03
 Pipe Size: 8" O.D.: N/A Depth: 48" Cement Lined - Y/N Polywrapped - Y/N Crew Ticket No. 030523302
 Main to Box, Nearest Branch: 8' House No. & Street: 2425 E. Galbraith Main to C/L: 12' S

I. Existing Conditions/Materials: (Circle no more than two in each category)

Pavement Types	Excavated Material	Pipe Material	Joint Types	Pipe Condition-Outside	Branch Material
1 Concrete	1 Bank Run/Gravel	1 Cast Iron	1 Lead	01 Badly Pitted	1 Copper
2 Block Paved	2 Cinders	2 Steel	2 Mechanical Joint	02 Pitted	2 Lead
3 Asphalt/Concrete	3 Rock	3 Ductile Iron	3 Leadite	03 Smooth	3 Galvanized Steel/Black Iron
4 Asphalt/Stone (mac)	4 Clay	4 Concrete	4 Compression Joint	04 Not Visible	4 Brass
5 Low Type (gravel)	5 Fill	5 Asbestos Cement (Transite)	5 Flange	05 Other-See Below	5 Plastic
6 Sod	6 Dirt	6 Copper	6 Not Visible	Pipe Condition-Inside	6 Cast Iron
7 Sidewalk	7 Sandy Soil	7 Plastic	7 Other-See Below	11 Heavy Tuberculation	7 Ductile Iron
8 Driveway	8 Other-See Below	8 Not Visible		12 Medium Tuberculation	8 Does Not Apply
9 Other-See Below		9 Other-See Below		13 Light Tuberculation	9 Other-See Below
Cut Size: <u>3x6</u>				14 No Tuberculation	
				15 Not Visible	
				16 Other-See Below	

II. Utilities In Excavation: (Circle one) 1 Sewer 2 Gas 3 Electric 4 Telephone 5 T.V. Cable 6 Car Rails 7 Other

III. Maintenance: (Circle one) 1 Break 2 Leak - Joint, Valve, Fire Hydrant, Branch 3 New Installation 4 Abandonment (*Drawing on back - Y/N)

Main Break/Joint Leak Type	Valve Leak Type	Fire Hydrant Leak Type	Branch Leak Type
01 Circular Crack	21 Stuffing Box	31 Inside Lead Leak	41 Ferrule
02 Longitudinal Crack	22 Bonnet Bolts	32 Outside Lead Leak	42 Stop Cock
03 Bell Crack	23 Defective Valve	33 Hydrant Valve	43 Inside Pipe Leak
04 Corrosion Hole	29 Other-See Below	39 Other-See Below	44 Outside Pipe Leak
05 Rusted Bolts			45 Service Saddle
06 Bad Gasket/lt. material			49 Other-See Below
Main/Joint Repair Type	Valve Repair Type	Fire Hydrant Repair Type	Branch Repair Type
01 Caulk Joint	01 Replace Existing Valve	01 Renew Existing Lead	01 Repair
02 Caulk & Clamp Joint	02 Replace Cap	02 Replace Existing F.H. Valve	02 Replace
03 Leak Clamp	03 Replace Bonnet/Stem	03 Replace Existing F.H. Valve & Lead	03 Disconnect
04 Pipe & Coupling	04 Bolt Replacement	*90 Install New F.H., Lead and Valve	*90 New Branch Installation
05 Repair Lead	05 Repack Stuffing Box	*98 Abandon F.H., Lead and Valve	*98 Abandon Branch
06 Replace Bolts	06 Replace Seal Plate	99 Other-See Below	99 Other-See Below
07 Replace fitting/cplg.	07 Replace Stem		
08 Tighten Coupling	08 Replace Gears		

Structure: _____ Code: _____

Structure: _____ Code: _____

Structure: _____ Code: _____

Remarks/Other: Cut in 58" of OTE, Made connection with 2 pipe couplings.
Flashfilled & Blacktopped.
325 vnds.

Report No. _____
Date 9-11-99

Report No. _____
Date 9-11-99

Crew Ticket No.

Main to C/1: 12

Codes

Branch

oper

DECLASSIFIED

—

from

Hostile from

NOI

5-0000

.....

100

1

•••••

7

2

1

Underground Report

Report No.

Date

House No. & Street:

2425

E. Galbreith

Neighborhood:

Reading

Location:

97.2' S

1st Mile above 50' Newcut

Permit No.

Crew Ticket No.

Pipe Size:

8"

O.D.:

7.4"

Depth:

50'

Cement Lined - Y/N

Polywrapped - Y/N

Main to C/L:

3' E of 1st Mile

Main to Box, Nearest Branch:

7.4'

House No. & Street:

2425

E. Galbreith

Main to C/L:

3' E of 1st Mile

I. Existing Conditions/Materials: (Circle no more than two in each category)

Pavement Types

Excavated Material

Pipe Material

Joint Types

Pipe Condition-Outside

Branch Material

Code:

1 Concrete

2 Block Paved

3 Asphalt/Concrete

4 Asphalt/Stone (mac)

5 Low Type (gravel)

6 Sod

7 Sidewalk

8 Driveway

9 Other-See Below

8x4

1 Bank Run/Gravel

2 Cinders

3 Rock

4 Clay

5 Fill

6 Dirt

7 Sandy Soil

8 Other-See Below

1 Cast Iron

2 Steel

3 Ductile Iron

4 Concrete

5 Asbestos Cement (Transite)

6 Copper

7 Plastic

8 Not Visible

9 Other-See Below

1 Lead

2 Mechanical Joint

3 Leadite

4 Compression Joint

5 Flange

6 Not Visible

7 Other-See Below

01 Badly Pitted

02 Pitted

03 Smooth

04 Not Visible

05 Other-See Below

Pipe Condition-Inside

11 Heavy Tuberculation

12 Medium Tuberculation

13 Light Tuberculation

14 No Tuberculation

15 Not Visible

16 Other-See Below

1 Copper

2 Lead

3 Galvanized Steel/Black Iron

4 Brass

5 Plastic

6 Cast Iron

7 Ductile Iron

8 Does Not Apply

9 Other-See Below

II. Utilities In Excavation: (Circle) 0 None 1 Sewer 2 Gas 3 Electric 4 Telephone 5 T.V. Cable 6 Car Rails 7 Other

Measurements: (Sketch on back - Y/N)

III. Maintenance: (Circle one) 1 Break 2 Leak - Joint, Valve, Fire Hydrant, Branch 3 New Installation* 4 Abandonment* (*Drawing on back - Y/N)

(Circle One Leak Type and One Repair Type From The Following Categories)

Main Break/Leak Type

11 Circular Crack

12 Longitudinal Crack

13 Bell Crack

14 Corrosion Hole

15 Rusted Bolts

16 Bad Gasket/Jl. material

Main/Leak Repair Type

01 Caulk Joint

02 Caulk & Clamp Joint

03 Leak Clamp

04 Pipe & Coupling

05 Repair Lead

06 Replace Bolts

07 Replace fitting/cplg.

08 Tighten Coupling

Valve Leak Type

21 Stuffing Box

22 Bonnet Bolts

23 Defective Valve

29 Other-See Below

Fire Hydrant Leak Type

31 Inside Lead Leak

32 Outside Lead Leak

33 Hydrant Valve

39 Other-See Below

Branch Leak Type

41 Ferrule

42 Stop Cock

43 Inside Pipe Leak

44 Outside Pipe Leak

45 Service Saddle

49 Other-See Below

Branch Repair Type

01 Repair

02 Replace

03 Disconnect

04 New Branch Installation

05 Abandon Branch

09 Other-See Below

Valve Repair Type

01 Replace Existing Valve

02 Replace Cap

03 Replace Bonnet/Stem

04 Bolt Replacement

05 Repack Stuffing Box

06 Replace Seal Plate

07 Replace Stem

08 Replace Gears

Fire Hydrant Repair Type

01 Renew Existing Lead

02 Replace Existing F.H. Valve

03 Replace Existing F.H. Valve & Lead

04 Install New F.H., Lead and Valve

05 Abandon F.H., Lead and Valve

09 Other-See Below

Structure: _____

Code: _____

Structure: _____

Code: _____

Structure: _____

Code: _____

Structure: _____

Code: _____

Remarks/Other:

2-8" Pipe Couplings

6 9/16" 8' 0" 18'

Underground Report

Report No. 10/29/04
Date 10/29/04

Neighborhood: REDAIN

House No. & Street: 2448 E GARBERTH RD
Location: 40.1' W OF 1ST MKV N OF HARVEST RD

Permit No. REDAIN

Crew Ticket No. 06-116273-002

Pipe Size: 8" O.D.: N/A Depth: 59" Cement Lined - Y/N Polywrapped - Y/N
Main to Box, Nearest Branch: 31.1' N House No. & Street: 2458 E GARBERTH RD Main to C/I: 12' N

I. Existing Conditions/Materials: (Circle no more than two in each category)

Pavement Types	Excavated Material	Pipe Material	Joint Types	Pipe Condition-Outside	Branch Material
1 Concrete	1 Bank Run/Gravel	1 Cast Iron	1 Lead	1 Badly Pitted	1 Copper
2 Block Paved	2 Cinder	2 Steel	2 Mechanical Joint	2 Pitted	2 Lead
3 Asphalt/Concrete	3 Rock	3 Ductile Iron	3 Deadite	3 Smooth	3 Galvanized Steel/Black Iron
4 Asphalt/Stone (mac)	4 Clay	4 Concrete	4 Compression Joint	4 Not Visible	4 Brass
5 Low Type (gravel)	5 Fill	5 Asbestos Cement (Transite)	5 Flange	5 Other-See Below	5 Plastic
6 Sod	6 Dirt	6 Copper	6 Not Visible	6 Pipe Condition-Inside	6 Cast Iron
7 Sidewalk	7 Sandy Soil	7 Plastic	7 Other-See Below	7 Heavy Tuberculation	7 Ductile Iron
8 Driveway	8 Other-See Below	8 Not Visible		8 Medium Tuberculation	8 Does Not Apply
9 Other-See Below		9 Other-See Below		9 Light Tuberculation	9 Other-See Below
Cut Size: <u>4'x7'</u>				10 No Tuberculation	
				11 Not Visible	
				12 Other-See Below	

II. Utilities In Excavation: (Circle) 0 None 1 Sewer 2 Gas 3 Electric 4 Telephone 5 T.V. Cable 6 Car Rails 7 Other

Measurements: (Sketch on back - Y/N)

III. Maintenance: (Circle one) 1 Break 2 Leak - Joint, Valve, Fire Hydrant, Branch 3 New Installation* 4 Abandonment* ('Drawing on back - Y/N)

(Circle One Leak Type and One Repair Type From The Following Categories)

Main Break/Leak Type
11 Circular Crack
12 Longitudinal Crack
13 Bell Crack
14 Corrosion Hole
15 Rusted Bolts
16 Bad Gasket/lt. material
Main/Leak Repair Type
01 Caulk Joint
02 Caulk & Clamp Joint
03 Leak Clamp
04 Pipe & Coupling
05 Repair Lead
06 Replace Bolts
07 Replace fitting/cplg.
08 Tighten Coupling
*90 Install New Pipe/Fitting
*98 Abandon Pipe/Fitting
99 Other-See Below

Valve Leak Type
21 Stuffing Box
22 Bonnet Bolts
23 Defective Valve
29 Other-See Below
Valve Repair Type
01 Replace Existing Valve
02 Replace Cap
03 Replace Bonnet/Stem
04 Bolt Replacement
05 Repack Stuffing Box
06 Replace Seal Plate
07 Replace Stem
08 Replace Gears
*90 Install, "Cut In"
*98 Abandon Valve
99 Other-See Below

Fire Hydrant Leak Type
31 Inside Lead Leak
32 Outside Lead Leak
33 Hydrant Valve
39 Other-See Below
Fire Hydrant Repair Type
01 Renew Existing Lead
02 Replace Existing F.H. Valve
03 Replace Existing F.H. Valve & Lead
*90 Install New F.H., Lead and Valve
*98 Abandon F.H., Lead and Valve
99 Other-See Below

Branch Leak Type
41 Ferrule
42 Stop Cock
43 Inside Pipe Leak
44 Outside Pipe Leak
45 Service Saddle
49 Other-See Below
Branch Repair Type
01 Repair
02 Replace
03 Disconnect
*90 New Branch Installation
*98 Abandon Branch
99 Other-See Below

Structure: _____ Code: _____

Remarks/Other: MATERIALS USED: 51" OF 8" D.I.P. / 2-8" PIPE COUPLES 1 PIECE OF POLYWRAP

4/90 2 EYR
Crew Leader/Field Supervisor: D CHATMAN / D WASTEN/ASD

Underground Report

Report No. 8-11-01
Date 8-11-01

Neighborhood: Reading

Permit No. _____ Crew Ticket No. _____

House No. & Street: 2455 E. GALBRAITH RD
Location: 3.5, 27' E of 1st F.H. E. of UNCL

Pipe Size: 8" O.D.: 14" Depth: 64"

Main to Box, Nearest Branch: N/A House No. & Street: _____

Cement Lined - ☒ Y ☐ N Polywrapped - ☒ Y ☐ N

Main to C/L: 16"N

I. Existing Conditions/Materials: (Circle no more than two in each category)

Pavement Types	Excavated Material	Pipe Material	Joint Types	Pipe Condition-Outside	Branch Material
1 Concrete 2 Block Paved 3 Asphalt/Concrete 4 Asphalt/Stone (mac) 5 Low Type (gravel) 6 Sod: 7 Sidewalk 8 Driveway 9 Other-See Below Cut Size: <u>6x8</u>	1 Bank Run/Gravel 2 Cinder 3 Rock 4 Clay 5 Fill 6 Dirt 7 Sandy Soil 8 Other-See Below	1 Cast Iron 2 Steel 3 Ductile Iron 4 Concrete 5 Asbestos Cement (Transite) 6 Copper 7 Plastic 8 Not Visible 9 Other-See Below	1 Lead 2 Mechanical Joint 3 Leadite 4 Compression Joint 5 Flange 6 Not Visible 7 Other-See Below	01 Badly Pitted 02 Pitted 03 Smooth 04 Not Visible 05 Other-See Below Pipe Condition-Inside 11 Heavy Tuberculation 12 Medium Tuberculation 13 Light Tuberculation 14 No Tuberculation 15 Not Visible 16 Other-See Below	1 Copper 2 Lead 3 Galvanized Steel/Black Iron 4 Brass 5 Plastic 6 Cast Iron 7 Ductile Iron 8 Does Not Apply 9 Other-See Below

II. Utilities in Excavation: (Circle) 0 None 1 Sewer 2 Gas 3 Electric 4 Telephone 5 T.V. Cable 6 Car Falls 7 Other

445 GALBRAITH 1" PLASTIC CROSSING HOSE

Measurements: (Sketch on back — Y)

III. Maintenance: (Circle one) 1 Break 2 Leak - Joint, Valve, Fire Hydrant, Branch 3 New Installation* 4 Abandonment* (*Drawing on back — Y)

(Circle One Leak Type and One Repair Type From The Following Categories)

Main Break/Leak Type	Valve Leak Type	Fire Hydrant Leak Type	Branch Leak Type
11 Circular Crack 12 Longitudinal Crack 13 Bell Crack 14 Corrosion Hole 15 Rusted Bolts 16 Bad Gasket/jt. material Main/Leak Repair Type 01 Caulk Joint 02 Caulk & Clamp Joint 03 Leak Clamp 04 Pipe & Coupling 05 Repair Lead 06 Replace Bolts 07 Replace fitting/cplg. 08 Tighten Coupling	21 Stuffing Box 22 Bonnet Bolts 23 Defective Valve 29 Other-See Below Valve Repair Type 01 Replace Existing Valve 02 Replace Cap 03 Replace Bonnet/Stem 04 Bolt Replacement 05 Repack Stuffing Box 06 Replace Seal Plate 07 Replace Stem 08 Replace Gears	31 Inside Lead Leak 32 Outside Lead Leak 33 Hydrant Valve 39 Other-See Below Fire Hydrant Repair Type 01 Renew Existing Lead 02 Replace Existing F.H. Valve 03 Replace Existing F.H. Valve & Lead 04 Install New F.H., Lead and Valve 05 Abandon F.H., Lead and Valve 06 Other-See Below	41 Ferrule 42 Stop Cock 43 Inside Pipe Leak 44 Outside Pipe Leak 45 Service Saddle 49 Other-See Below Branch Repair Type 01 Repair 02 Replace 03 Disconnect 04 New Branch Installation 05 Abandon Branch 06 Other-See Below

Structure: _____ Code: _____

Code: _____

Remarks/Other: Cut in 90" of 8" D.I. Pipe w/ coupling and backfilled and applied external wrap from 1 ft. from

Underground Report

Report No.

Date 10.26.95

Neighborhood:

~~RETRACTED~~

House No. & Street: 2455 E. GALBREATH RD

Permit No.

Crew Ticket No.

Location: 15 W of 1st FH W. of HARVEST LN

Cement Lined - Y/N

Main to C/L:

Pipe Size: 8" O.D.: 63" Depth: 63"

House No. & Street: 2455 E GALBREATH

Main to Box, Nearest Branch: 6'

I. Existing Conditions/Materials: (Circle no more than two in each category)

Pavement Types

Excavated Material

Pipe Material

Joint Types

Code: * 6" ups CURB

1 Concrete

2 Block Paved

3 Asphalt/Concrete

4 Asphalt/Stone (mac)

5 Low Type (gravel)

6 Sod

7 Sidewalk

8 Driveway

9 Other-See Below

Cut Size: 5' 10" Rolled mac CURB.

1 Bank Run/Gravel

2 Cinder

3 Rock

4 Clay

5 Fill

6 Dirt

7 Sandy Soil

8 Other-See Below

9 Other-See Below

1 Lead

2 Mechanical Joint

3 Lead

4 Compression Joint

5 Flange

6 Not Visible

7 Other-See Below

11 Heavy Tuberculation

12 Medium Tuberculation

13 Light Tuberculation

14 No Tuberculation

15 Not Visible

16 Other-See Below

1 Copper

2 Lead

3 Galvanized Steel/Black Iron

4 Brass

5 Plastic

6 Cast Iron

7 Ductile Iron

8 Does Not Apply

9 Other-See Below

II. Utilities In Excavation: (Circle) 0 None 1 Sewer 2 Gas 3 Electric 4 Telephone 5 T.V. Cable 6 Car Rails 7 Other

Measurements: (Sketch on back - Y/N)

III. Maintenance: (Circle/one) 1 Break 2 Leak - Joint, Valve, Fire Hydrant, Branch 3 New Installation 4 Abandonment (*Drawing on back - Y/N)

(Circle One Leak Type and One Repair Type From The Following Categories)

Main Break/Leak Type

11 Circular Crack

12 Longitudinal Crack

13 Bell Crack

14 Corrosion Hole

15 Rusted Bolts

16 Bad Gasket/jt. material

Main/Leak Repair Type

01 Caulk Joint

02 Caulk & Clamp Joint

03 Leak Clamp

04 Pipe & Coupling

05 Repour Lead

06 Replace Bolts

07 Replace fitting/cplg.

08 Tighten Coupling

Valve Leak Type

21 Stuffing Box

22 Bonnet Bolts

23 Defective Valve

29 Other-See Below

Valve Repair Type

01 Replace Existing Valve

02 Replace Cap

03 Replace Bonnet/Stem

04 Bolt Replacement

05 Repack Stuffing Box

06 Replace Seal Plate

07 Replace Stem

08 Replace Gears

Fire Hydrant Leak Type

31 Inside Lead Leak

32 Outside Lead Leak

33 Hydrant Valve

39 Other-See Below

Fire Hydrant Repair Type

01 Renew Existing Lead

02 Replace Existing F.H. Valve

03 Replace Existing F.H. Valve & Lead

04 Bolt Replacement

05 Repack Stuffing Box

06 Replace Seal Plate

07 Replace Stem

08 Replace Gears

Branch Leak Type

41 Ferrule

42 Stop Cock

43 Inside Pipe Leak

44 Outside Pipe Leak

45 Service Saddle

49 Other-See Below

Branch Repair Type

01 Repair

02 Replace

03 Disconnect

04 New Branch Installation

05 Abandon Branch

06 Other-See Below

Structure: _____

Code: _____

Structure: _____

Code: _____

Structure: _____

Code: _____

Structure: _____

Code: _____

Remarks/Other:

REMOVED 8" LEADITE HUB LOOKING EAST. DRESSER IN 4' & 8" DIP

4/90

EWYR

Crew Leader/Field Supervisor A. BROWN - J. Nicely

UNIVERSITY REPORT

Report No.

Date 12-7-92

House No. & Street: 2455 E. GARBRATH

Neighborhood:

Location: 20' W. 1ST F.H. E. VINCA

Permit No.

Crew Ticket No.

Pipe Size: 8" O.D. Normal Depth: 63"

Cement Lined - Y/N ☒ Polywrapped - Y/N ☒

Main to C/L: 6" N.O.F.S. CURR

I. Existing Conditions/Materials: (Circle no more than two in each category)

Pavement Types	Excavated Material	Pipe Material	Joint Types	Pipe Condition-Outside	Branch Material
1 Concrete	1 Bank Run/Gravel	1 Cast Iron	1 Lead	01 Badly Pitted	1 Copper
2 Block Paved	2 Chinders	2 Steel	2 Mechanical Joint	02 Pitted	2 Lead
3 Asphalt/Concrete	3 Rock	3 Ductile Iron	3 Leadite	03 Smooth	3 Galvanized Steel/Black Iron
4 Asphalt/Stone (mac)	4 Clay	4 Concrete	4 Compression Joint	04 Not Visible	4 Brass
5 Low Type (gravel)	5 Fill	5 Asbestos Cement (Transite)	5 Flange	05 Other-See Below	5 Plastic
6 Sod	6 Dirt	6 Copper	6 Not Visible	Pipe Condition-Inside	6 Cast Iron
7 Sidewalk	7 Sandy Soil	7 Plastic	7 Other-See Below	11 Heavy Tuberculation	7 Ductile Iron
8 Driveway	8 Other-See Below	8 Not Visible		12 Medium Tuberculation	8 Does Not Apply
9 Other-See Below		9 Other-See Below		13 Light Tuberculation	9 Other-See Below
Cut Size: 3' x 6'				14 No Tuberculation	
				15 Not Visible	
				16 Other-See Below	

II. Utilities In Excavation: (Circle) 0 None 1 Sewer 2 Gas 3 Electric 4 Telephone 5 T.V. Cable 6 Car Rails 7 Other

Measurements: (Sketch on back - Y/N)

III. Maintenance: (Circle one) 1 Break 2 Leak - Joint, Valve, Fire Hydrant, Branch 3 New Installation 4 Abandonment (*Drawing on back - Y/N)

(Circle One Leak Type and One Repair Type From The Following Categories)

Main Break/Leak Type
1 Circular Crack
12 Longitudinal Crack
13 Bell Crack
14 Corrosion Hole
15 Rusted Bolts
16 Bad Gasket/Jt. material
Main/Join Repair Type
01 Caulk Joint
02 Caulk & Clamp Joint
03 Leak Clamp
04 Pipe & Coupling
05 Repair Lead
06 Replace Bolts
07 Replace fitting/cplg.
08 Tighten Coupling

Valve Leak Type
21 Stuffing Box
22 Bonnet Bolts
23 Defective Valve
29 Other-See Below

Fire Hydrant Leak Type
31 Inside Lead Leak
32 Outside Lead Leak
33 Hydrant Valve
39 Other-See Below

Valve Repair Type
01 Replace Existing Valve
02 Replace Cap
03 Replace Bonnet/Stem
04 Bolt Replacement
05 Repack Stuffing Box
06 Replace Seal Plate
07 Replace Stem
08 Replace Gears

Fire Hydrant Repair Type
01 Renew Existing Lead
02 Replace Existing F.H. Valve
03 Replace Existing F.H. Valve & Lead
*90 Install New F.H. Lead and Valve
*98 Abandon F.H. Lead and Valve
99 Other-See Below

Branch Leak Type
41 Ferrule
42 Stop Cock
43 Inside Pipe Leak
44 Outside Pipe Leak
45 Service Saddle
48 Other-See Below
Branch Repair Type
01 Repair
02 Replace
03 Disconnect
*90 New Branch Installation
*98 Abandon Branch
99 Other-See Below

Structure: _____

Code: _____

Structure: _____

Code: _____

Structure: _____

Code: _____

Structure: _____

Code: _____

Remarks/Other: _____

Crew Leader/Field Supervisor

Luckey, Randy

UNDERGROUND REPORT

UNION VUE

HOUSE NO. & STREET 2488 E. GALTBRATH Rd DATE 1-23-81

PERMIT NO. _____ LOCATION 127 1/2' E. OF 5TH FH. W.

CREW NO. Bush OF Ridge Rd.

MAIN TO BOX NEAREST BRANCH _____ (House No.) _____ MAIN TO C/L 13 1/2' (Direction) S PIPE SIZE 8"

PAVING MHC 4' X 5' DEPTH 50" O.D. _____

TYPE OF PIPE & JOINT C.I. Pipe JOINT UNKNOWN

SOIL CONDITION (Circle One) - Bank Run - Clinders - Rock - Clay - Fill - Dirt - Other _____

PIPE CONDITION (Circle One) - Outside - Badly Pitted - Pitted - Smooth - Other _____

Inside: Tuberculation - Heavy - Medium - Light - None _____

Cement Lined: - Yes (NO) Irregular Wall Thickness: Yes (NO)

LOCATION OF OTHER UTILITIES IN EXCAVATION NONE

REASON FOR EXCAVATION - Branch Installation (Size) _____ Connection (Size & Type) _____

Service Branch Leak (Circle One) - Tapping Saddle - Ferrule - Curb Cock - Other _____

Service Branch Material (Circle One) - Copper - Lead - Brass - Other _____

Main Break (Circle One) (Cir. Crack) - Long crack - Bell Crack - Spigot Crack - Other _____

Main	Date	Time
Off		
On		

Was there construction in area? Yes (NO) By whom? _____ Extent of damage _____

Other reason for exc. To Repair 8" MAIN BREAK

Remarks (Include type of repair; descr. of break) Discovered circular crack

Used, 1-8" Full circle leak clamp.

LEAK			
Joint	Pipe	Branch	
NEW		WORK	
Branch Install.	Conn.	Other	

Foreman: FLOURENS

Underground Report

Report No. _____
Date 1/30/08

House No. & Street: 2416 E GALBRATH Neighborhood: READING
Location: 85' South of 1st mile S of Mary Crest Permit No. _____ Crew Ticket No 08-010647.001

Pipe Size: 8" O.D.: _____ Depth: 71' Cement Lined Y/N/U Polywrapped - Y/N/U
Main to Cal: 7' of WCURB

Chain to Box, Nearest Branch: _____ House No. & Street: _____

Existing Conditions/Materials: (Circle no more than two in each category)

Paved Types	Excavated Material	Pipe Material	Joint Types	Pipe Condition-Outside	Branch Material
Concrete	1 Bank Run/Gravel	1 Cast Iron	1 Lead	01 Badly Piled	1 Copper
Block Paved	2 Cinders	2 Steel	2 Mechanical Joint	02 Pitted	2 Lead
Asphalt/Concrete	3 Rock	3 Ductile Iron	3 Lead	03 Smooth	3 Galvanized Steel/Black Iron
Asphalt/Stone (mac)	4 Clay	4 Concrete	4 Compression Joint	04 Not Visible	4 Brass
Low Type (gravel)	5 Fill	5 Asbestos Cement (Transite)	5 Flange	05 Other-See Below	5 Plastic
Sod:	6 Dirt	6 Copper	6 Not Visible	Pipe Condition-Inside	6 Cast Iron
Sidewalk	7 Sandy Soil	7 Plastic	7 Other-See Below	11 Heavy Tuberculation	7 Ductile Iron
Driveway	8 Other-See Below	8 Not Visible		12 Medium Tuberculation	8 Does Not Apply
Other-See Below		9 Other-See Below		13 Light Tuberculation	9 Other-See Below
Out Size: <u>8x12</u>				14 No Tuberculation	
				15 Not Visible	
				16 Other-See Below	

Utilities In Excavation: (Circle) 0 None 1 Sewer 2 Gas 3 Electric 4 Telephone 5 T.V. Cable 6 Car Rails 7 Other _____

Measurements: (Sketch on back - Y/N) _____

1. Maintenance: (Circle one) 1 Break 2 Leak - Joint, Valve, Fire Hydrant, Branch 3 New Installation* 4 Abandonment* (*Drawing on back - Y/N)
(Circle One Leak Type and One Repair Type From The Following Categories)

Main Break/Joint Leak Type	Valve Leak Type	Fire Hydrant Leak Type	Branch Leak Type
11 Circular Crack	21 Stuffing Box	31 Inside Lead Leak	41 Ferrule
12 Longitudinal Crack	22 Bonnet Bolts	32 Outside Lead Leak	42 Stop Sock
13 Bell Crack	23 Defective Valve	33 Hydrant Valve	43 Inside Pipe Leak
14 Corrosion Hole	29 Other-See Below	39 Other-See Below	44 Outside Pipe Leak
15 Rusted Bolts			45 Service Saddle
16 Bad Gasket/ft. material			49 Other-See Below
Main/Joint Repair Type	Valve Repair Type	Fire Hydrant Repair Type	Branch Repair Type
11 Caulk Joint	01 Replace Existing Valve	01 Renew Existing Lead	01 Repair
12 Caulk & Clamp Joint	02 Replace Cap	02 Replace Existing F.H. Valve	02 Replace
13 Leak Clamp	03 Replace Bonnet/Stem	03 Replace Existing F.H. Valve & Lead	03 Disconnect
14 Pipe & Coupling	04 Bolt Replacement	04 Install "Cut In"	04 New Valve
15 Repair Lead	05 Repack Stuffing Box	06 Replace Seal Plate	06 New Valve
16 Replace Bolts	06 Replace Stem	07 Replace Gears	07 Other-See Below
17 Replace fitting/clp.	08 Replace Gears		
18 Tighten Coupling			

Structure: _____ Code: _____

Remarks/Other: 3 UNDER ASPHALT there is a second street could not put
BASE ON PAIR.

Crew Leader/Field Supervisor FATH/Estthman

Underground Report

Report No. _____

Date 6/19/08

Neighborhood: LEANDINE

House No. & Street: 2424 Coalbrook Rd

Location: 22' S. of MLV S. of Marycrest Dr.

Permit No. _____

Crew Ticket No 08-079848-00

Pipe Size: 8" O.D.: _____ Depth: 45"

Cement Lined - Y/N Polywrapped - Y/N

Main to Box, Nearest Branch: 27' House No. & Street: 2424 E. Coalbrook Rd

Main to C/L: 11' W.

I. Existing Conditions/Materials: (Circle no more than two in each category)

Code: _____

Pavement Types

Excavated Material

Pipe Material

Joint Types

Pipe Condition-Outside

Branch Material

1 Concrete

1 Bank Run/Gravel

1 Cast Iron

1 Lead

01 Badly Pitted

1 Copper

2 Block Paved

2 Cinders

2 Steel

3 Mechanical Joint

02 Pitted

2 Lead

3 Asphalt/Concrete

3 Rock

3 Ductile Iron

3 Leadite

03 Smooth

3 Galvanized Steel/Black Iron

4 Asphalt/Stone (mac)

4 Clay

4 Concrete

4 Compression Joint

04 Not Visible

4 Brass

5 Low Type (gravel)

5 Fill

5 Asbestos Cement (Transite)

5 Flange

05 Other-See Below

5 Plastic

6 Sod

6 Dirt

6 Copper

6 Not Visible

11 Heavy Tuberculation

6 Cast Iron

7 Sidewalk

8 Other-See Below

7 Plastic

7 Other-See Below

13 Light Tuberculation

7 Ductile Iron

9 Other-See Below

9 Other-See Below

9 Other-See Below

14 No Tuberculation

8 Does Not Apply

10 Other-See Below

10 Other-See Below

15 Not Visible

16 Other-See Below

II. Utilities In Excavation: (Circle) 0 None 1 Sewer 2 Gas 3 Electric 4 Telephone 5 T.V. Cable 6 Car Rails 7 Other _____

Measurements: (Sketch on back - Y/N)

III. Maintenance: (Circle one) 1 Break 2 Leak - Joint, Valve, Fire Hydrant, Branch 3 New Installation* 4 Abandonment* (*Drawing on back - Y/N)

(Circle One Leak Type and One Repair Type From The Following Categories)

Main Break/Leak Type

11 Circular Crack

12 Longitudinal Crack

13 Bell Crack

14 Corrosion Hole

15 Rusted Bolts

16 Bad Gasket/Jt. material

17 Coupling/Clamp

18 WWC

19 Other-See Below

Main/Leak Repair Type

01 Caulk Joint

02 Caulk & Clamp Joint

03 Leak Clamp

04 Pipe & Coupling

05 Repair Lead

06 Replace Bolts

07 Replace fitting/cplg.

08 Tighten Coupling

*90 Install New Pipe/Fitting

*98 Abandon Pipe/Fitting

99 Other-See Below

Valve Leak Type

21 Stuffing Box

22 Bonnet Bolts

23 Defective Valve

29 Other-See Below

Valve Repair Type

01 Replace Existing Valve

02 Replace Cap

03 Replace Bonnet/Stem

04 Bolt Replacement

05 Repack Stuffing Box

06 Replace Seal Plate

07 Replace Stem

08 Replace Gears

*90 Install, "Cut In"

New Valve

*98 Abandon Valve

99 Other-See Below

Fire Hydrant Leak Type

31 Inside Lead Leak

32 Outside Lead Leak

33 Hydrant Valve

39 Other-See Below

Fire Hydrant Repair Type

01 Renew Existing Lead

02 Replace Existing F.H. Valve

03 Replace Existing F.H. Valve & Lead

*90 Install New F.H., Lead and Valve

*98 Abandon F.H., Lead and Valve

99 Other-See Below

Branch Leak Type

41 Ferrule

42 Stop Cock

43 Inside Pipe Leak

44 Outside Pipe Leak

45 Service Saddle

49 Other-See Below

Branch Repair Type

01 Repair

02 Replace

03 Disconnect

*90 New Branch Installation

*98 Abandon Branch

99 Other-See Below

Code: _____

Code: _____

Code: _____

Code: _____

Structure: _____

Structure: _____

Structure: _____

Structure: _____

Remarks/Other: APPROXIMATE 3' DIAMETER PIPE CAUSE TO A LEAK DURING REPAIR WORK. LEAK CONTINUES AND ALL OF SPITTY

USING 2-3" WIRE COUPLES DOES NOT STOP LEAK. 8" DIA. POLYURETHANE HOLE PADS FLASHTIGHTED.

LEAKS 1/2" 2305

UNIVERSITY WATER WORKS REPAIR UNDERGROUND REPORT

HOUSE No. 2850 DIR. E STREET Galbraith TYPE Rd DATE 6-29-82
 LOCATION 99' W 4th St OF Ridgely Rd CREW ID J. Jones
 MAIN TO BOX NEAREST BR. House No. 2850 MAIN TO C/L 24.5' DIRECTION S

REPAIR TYPE: 2 PAVEMENT TYPE 3 EXCAVATED MATERIAL 6

MAIN BREAK: (Y/N) PIPE MATERIAL 1 JOINT TYPE 3 MAIN LEAK TYPE 3 **LEADITE** **BELL CRACK**
 PIPE: SIZE 8" O.D. 5' DEPTH 5' PIPE COND.: OUTSIDE D-2 INSIDE I-4
 CEMENT LINED: (Y/N) POLY WRAPPED: (Y/N) VALVE LEAK

SERVICE BRANCH BREAK: Y/N BRANCH MATERIAL BRANCH LEAK TYPE
 BRANCH: SIZE DEPTH

REPAIR: MANHOURS COST RESTORATION: MANHOURS COST

INSTALLATION TYPE: FIRE HYDRANT: Y/N SERVICE BRANCH: Y/N

BRANCH SIZE CONNECTION (SIZE & TYPE)

LOCATION OF OTHER UTILITIES IN EXCAVATION None

CONSTRUCTION IN AREA: Y/N BY WHOM?

REMARKS Pipe split near of bell dressed in 38"
8" pipe lead to joint facing E

IF BOX IS CHECKED SEE SKETCH ON OTHER SIDE ☐ FIELD SUPRV. Howard

YEAR PIPE INSTALLED SOIL: TYPE PH CORROSION

POLITICAL SUBD. S.A. TRACT BLOCK FACE

PIPE SEGMENT No. N COORD. E COORD.

WATER: TEMP. PRESS. OVHD. USE: CITY CO.

Underground Report

Report No. _____

Date 8/28/07

Neighborhood: Amberly

Permit No. _____

Crew Ticket No. 070808800

House No. & Street: 2920 E Galbraith Rd

Location: AND MLV W Ridge

Pipe Size: 8" O.D.: 52" Depth: 52"

Cement Lined - Y/N Polywrapped - Y/N

Main to Box, Nearest Branch: 43' to meter pit House No. & Street: 2896 E Galbraith

Main to C/L: 9' S

I. Existing Conditions/Materials: (Circle no more than two in each category)

Pavement Types

1 Concrete
2 Block Paved
3 Asphalt/Concrete
4 Asphalt/Stone (mac)
5 Low Type (gravel)
6 Sod:
7 Sidewalk
8 Driveway
9 Other-See Below

Excavated Material

1 Bank Run/Gravel
2 Cinders
3 Rock
4 Clay
5 Fill
6 Dirt
7 Sandy Soil
8 Other-See Below

Pipe Material

1 Cast Iron
2 Steel
3 Ductile Iron
4 Concrete
5 Asbestos Cement (Transite)
6 Copper
7 Plastic
8 Not Visible
9 Other-See Below

Joint Types

1 Lead
2 Mechanical Joint
3 Lead
4 Compression Joint
5 Flange
6 Not Visible
7 Other-See Below

Pipe Condition-Outside

01 Badly Pitted
02 Pitted
03 Smooth
04 Not Visible
05 Other-See Below

Code:

Branch Material

1 Copper
2 Lead
3 Galvanized Steel/Black Iron
4 Brass
5 Plastic
6 Cast Iron
7 Ductile Iron
8 Does Not Apply
9 Other-See Below

Cut Size: 5x7'

II. Utilities In Excavation: (Circle) 0 None 1 Sewer 2 Gas 3 Electric 4 Telephone 5 T.V. Cable 6 Car Rails 7 Other _____

Measurements: (Sketch on back — Y/N) _____

III. Maintenance: (Circle one) 1 Break 2 Leak - Joint (Valve) Fire Hydrant, Branch 3 New Installation* 4 Abandonment* (*Drawing on back — Y/N)

(Circle One Leak Type and One Repair Type From The Following Categories)

Main Break/Leak Type

11 Circular Crack
12 Longitudinal Crack
13 Bell Crack
14 Corrosion Hole
15 Rusted Bolts
16 Bad Gasket/Jt. material

Valve Leak Type

21 Stuffing Box
22 Bonnet Bolts
23 Defective Valve
29 Other-See Below

Fire Hydrant Leak Type

31 Inside Lead Leak
32 Outside Lead Leak
33 Hydrant Valve
39 Other-See Below

Branch Leak Type

41 Ferrule
42 Stop Cock
43 Inside Pipe Leak
44 Outside Pipe Leak
45 Service Saddle
49 Other-See Below

Main/Leak Repair Type

01 Caulk Joint
02 Caulk & Clamp Joint
03 Leak Clamp
04 Pipe & Coupling
05 Repour Lead
06 Replace Bolts
07 Replace fitting/cplg.
08 Tighten Coupling

Valve Repair Type

01 Replace Existing Valve
02 Replace Cap
03 Replace Bonnet/Stem
04 Bolt Replacement
05 Repack Stuffing Box
06 Replace Seal Plate
07 Replace Stem
08 Replace Gears

Fire Hydrant Repair Type

01 Renew Existing Lead
02 Replace Existing F.H. Valve
03 Replace Existing F.H. Valve & Lead
*90 Install New F.H., Lead and Valve
*98 Abandon F.H., Lead and Valve
99 Other-See Below

Branch Repair Type

01 Repair
02 Replace
03 Disconnect
*90 New Branch Installation
*98 Abandon Branch
99 Other-See Below

Structure: _____

Structure: _____

Structure: _____

Structure: _____

Code: _____

Code: _____

Code: _____

Code: _____

Remarks/Other: 8" MLV was down + broke. Replace with a 24" valve. Megalugs, nipples + couplings.

Underground Report

Report No. _____

Date 8.9.97

Neighborhood: Amberly

Crew Ticket No. _____

Permit No. _____

House No. & Street: 2920 E. Galathea Rd

Location: 358' W of 1st FH W. of Ridge Rd

Pipe Size: 8" O.D.: 52" Depth: 52" Cement Lined - Y Polywrapped - Y

Main to Box, Nearest Branch: _____ House No. & Street: _____

Main to C/L: 9' S

I. Existing Conditions/Materials: (Circle no more than two in each category)

Code: _____

Pavement Types

Excavated Material

Pipe Material

Joint Types

Pipe Condition-Outside

Branch Material

- 1 Concrete
- 2 Block Paved
- 3 Asphalt/Concrete
- 4 Asphalt/Stone (mac)
- 5 Low Type (gravel)
- 6 Sod
- 7 Sidewalk
- 8 Driveway
- 9 Other-See Below

- 1 Bank Run/Gravel
- 2 Cinder
- 3 Rock
- 4 Clay
- 5 Fill
- 6 Dirt
- 7 Sandy Soil
- 8 Other-See Below
- 9 Other-See Below

- 1 Cast Iron
- 2 Steel
- 3 Ductile Iron
- 4 Concrete
- 5 Asbestos Cement (Transite)
- 6 Copper
- 7 Plastic
- 8 Not Visible
- 9 Other-See Below

- 1 Lead
- 2 Mechanical Joint
- 3 Beadite
- 4 Compression Joint
- 5 Flange
- 6 Not Visible
- 7 Other-See Below

- 01 Badly Pitted
- 02 Pitted
- 03 Smooth
- 04 Not Visible
- 05 Other-See Below

- 1 Copper
- 2 Lead
- 3 Galvanized Steel/Black Iron
- 4 Brass
- 5 Plastic
- 6 Cast Iron
- 7 Ductile Iron
- 8 Does Not Apply
- 9 Other-See Below

Cut Size: 5x7

II. Utilities In Excavation: (Circle) 0 None 1 Sewer 2 Gas 3 Electric 4 Telephone 5 T.V. Cable 6 Car Rails 7 Other _____

Measurements: (Sketch on back - Y/N) _____

III. Maintenance: (Circle one) 1 Break 2 Leak - Joint, Valve, Fire Hydrant, Branch 3 New Installation* 4 Abandonment* (*Drawing on back - Y/N)

(Circle One Leak Type and One Repair Type From The Following Categories)

Main Break/Joint Leak Type

- 11 Circular Crack
- 12 Longitudinal Crack
- 13 Bell Crack
- 14 Corrosion Hole
- 15 Rusted Bolts
- 16 Bad Gasket/Jt. material

Main/Joint Repair Type

- 01 Caulk Joint
- 02 Caulk & Clamp Joint
- 03 Leak Clamp
- 04 Pipe & Coupling
- 05 Repair Lead
- 06 Replace Bolts
- 07 Replace fitting/cplg.
- 08 Tighten Coupling
- 17 Coupling/Clamp
- 18 WWC
- 19 Other-See Below
- 90 Install New Pipe/Fitting
- 98 Abandon Pipe/Fitting
- 99 Other-See Below

Valve Leak Type

- 21 Stuffing Box
- 22 Bonnet Bolts
- 23 Defective Valve
- 29 Other-See Below

Valve Repair Type

- 01 Replace Existing Valve
- 02 Replace Cap
- 03 Replace Bonnet/Stem
- 04 Bolt Replacement
- 05 Repack Stuffing Box
- 06 Replace Seal Plate
- 07 Replace Stem
- 08 Replace Gears
- 90 Install, "Cut In"
- 98 Abandon Valve
- 99 Other-See Below

Fire Hydrant Leak Type

- 31 Inside Lead Leak
- 32 Outside Lead Leak
- 33 Hydrant Valve
- 39 Other-See Below

Fire Hydrant Repair Type

- 01 Renew Existing Lead
- 02 Replace Existing F.H. Valve
- 03 Replace Existing F.H. Valve & Lead
- 90 Install New F.H., Lead and Valve
- 98 Abandon F.H., Lead and Valve
- 99 Other-See Below

Branch Leak Type

- 41 Ferrule
- 42 Stop Cock
- 43 Inside Pipe Leak
- 44 Outside Pipe Leak
- 45 Service Saddle
- 49 Other-See Below

Branch Repair Type

- 01 Repair
- 02 Replace
- 03 Disconnect
- 90 New Branch Installation
- 98 Abandon Branch
- 99 Other-See Below

Structure: _____

Code: _____

Remarks/Other: REMOVED SPLIT HEAD IV HUB, INSTALLED 28.5" of 8" DIP, 2-8" P.C.

Crew Leader/Field Supervisor

N. M. S. S.

Underground Report

House No. & Street: 2920 East Colburn Rd Neighborhood: Amblerly Report No. 12-22-95
 Location: East of the 2nd NWL West of Ridge Date: 12-22-95

Pipe Size: 8" O.D.: N/A Depth: 52" Cement Lined - Y/N/U: Y Polywrapped - Y/N/U: Y Permit No. Crew Ticket No.

Main to Box, Nearest Branch: N/A House No. & Street: Main to C/L: 10' South

I. Existing Conditions/Materials: (Circle no more than two in each category)

Pavement Types	Excavated Material	Pipe Material	Joint Types	Pipe Condition-Outside	Branch Material
1 Concrete 2 Block Paved 3 Asphalt/Concrete 4 Asphalt/Stone (mac) 5 Low Type (gravel) 6 Sod 7 Sidewalk 8 Driveway 9 Other-See Below Cut Size: <u>5' x 7'</u>	1 Bank Run/Gravel 2 Clinders 3 Rock 4 Clay 5 Fill 6 Dirt 7 Sandy Soil 8 Other-See Below	1 Cast Iron 2 Steel 3 Ductile Iron 4 Concrete 5 Asbestos Cement (Transite) 6 Copper 7 Plastic 8 Not Visible 9 Other-See Below	1 Lead 2 Mechanical Joint 3 Leadline 4 Compression Joint 5 Flange 6 Not Visible 7 Other-See Below	01 Badly Pitted 02 Pitted 03 Smooth 04 Not Visible 05 Other-See Below Pipe Condition-Inside 11 Heavy Tuberculation 12 Medium Tuberculation 13 Light Tuberculation 14 No Tuberculation 15 Not Visible 16 Other-See Below	1 Copper 2 Lead 3 Galvanized Steel/Black Iron 4 Brass 5 Plastic 6 Cast Iron 7 Ductile Iron 8 Does Not Apply 9 Other-See Below

II. Utilities In Excavation: (Circle) 0 None 1 Sewer 2 Gas 3 Electric 4 Telephone 5 T.V. Cable 6 Car Rails 7 Other

Measurements: (Sketch on back - Y/N)

III. Maintenance: (Circle one) 1 Break 2 Leak - Joint, Valve, Fire Hydrant, Branch 3 New Installation* 4 Abandonment* (*Drawing on back - Y/N)

(Circle One Leak Type and One Repair Type From The Following Categories)

Main Break/Leak Type	Valve Leak Type	Fire Hydrant Leak Type	Branch Leak Type
11 Circular Crack 12 Longitudinal Crack 13 Bell Crack 14 Corrosion Hole 15 Rusted Bolts 16 Bad Gasket/lt. material Main/Leak Repair Type 01 Caulk Joint 02 Caulk & Clamp Joint 03 Leak Clamp 04 Pipe & Coupling 05 Repair Lead 06 Replace Bolts 07 Replace fitting/cplg. 08 Tighten Coupling	21 Stuffing Box 22 Bonnet Bolts 23 Defective Valve 29 Other-See Below Valve Repair Type 01 Replace Existing Valve 02 Replace Cap 03 Replace Bonnet/Stem 04 Bolt Replacement 05 Repack Stuffing Box 06 Replace Seal Plate 07 Replace Stem 08 Replace Gears	31 Inside Lead Leak 32 Outside Lead Leak 33 Hydrant Valve 39 Other-See Below Fire Hydrant Repair Type 01 Renew Existing Lead 02 Replace Existing F.H. Valve 03 Replace Existing F.H. Valve & Lead 04 Install New F.H., Lead and Valve 05 Abandon F.H., Lead and Valve 06 Other-See Below	41 Ferrule 42 Stop Cock 43 Inside Pipe Leak 44 Outside Pipe Leak 45 Service Saddle 49 Other-See Below Branch Repair Type 01 Repair 02 Replace 03 Disconnect 04 New Branch Installation 05 Abandon Branch 06 Other-See Below

Structure: Code:

Remarks/Other: 8" water main was cracked around, installed 1-1/2" Full Circle

AMBERLY

1-13-81

UNDERGROUND REPORT

CHECK ONE

LEAK

HOUSE NO. & STREET 2920 GALEBRARY RD DATE 1-13-81

PERMIT NO. LOCATION 52' W. OF 3RD E. 14' W. OF BRIDGE

CREW NO. SUTTON 4634

MAIN TO BOX NEAREST BRANCH (House No.) MAIN TO C/L 11 (Direction) S PIPE SIZE 8"

PAVING MAC 6x3' DEPTH 5'-2" O.D.

TYPE OF PIPE & JOINT C.I.P. LEADITE JOINT

SOIL CONDITION (Circle One) - Bank Run - Cinders - Rock - Clay - Fill - Dirt - Other

PIPE CONDITION (Circle One) - Outside - Badly Pitted - Pitted - Smooth - Other

Inside: Tuberculation - Heavy - Medium - Light - None

Cement Lined: - Yes No Irregular Wall Thickness: Yes No

LOCATION OF OTHER UTILITIES IN EXCAVATION NONE

REASON FOR EXCAVATION - Branch Installation (Size) Connection (Size & Type)

Main Date Time Service Branch Leak (Circle One) - Tapping Saddle - Ferrule - Curb Cock - Other

Off 1-13-81 Service Branch Material (Circle One) - Copper - Lead - Brass - Other

On 1-13-81 Main Break (Circle One) Ctr. Crack - Long crack - Bell Crack - Spigot Crack -

Other

Was there construction in area? Yes No By whom? Extent of damage

Other reason for exc.

Remarks (Include type of repair; descr. of break) DRESSED IN 8" PIPE

2-8" PIPE COUPLINGS, 2'-8" D.T. 12-1 PIECE POLY WRAP

1/4" ORIFICE

54

Foreman: J. L. Brown

Use other side for sketch if necessary. Check here ☐

25.000

UNDERGROUND REPORT

U.S. DEPT. OF AGRICULTURE

HOUSE NO. & STREET 2940 W. GALBRAITH Rd. DATE MAR. 5, 1975

PERMIT NO. - LOCATION Grassack

CREW NO. - E. OF COLEMAN AV.

MAIN TO BOX NEAREST BRANCH 2.0' (House No.) 2940 MAIN TO C/L 18.0' (Direction) S. PIPE SIZE 8"

PAVING Grass DEPTH 4.0' O.D. -

TYPE OF PIPE & JOINT 8" TRANSITE

SOIL CONDITION (Circle One) - Bank Run - Cinders - Rock - Clay - Fill - Dirt - Other -

PIPE CONDITION (Circle One) - Outside - Badly Pitted - Pitted - Smooth - Other -

Inside: Tuberculation - Heavy - Medium - Light - None

Cement Lined: - Yes No Irregular Wall Thickness: Yes No

LOCATION OF OTHER UTILITIES IN EXCAVATION None

REASON FOR EXCAVATION - Branch Installation (Size) - Connection (Size & Type) -

Main	Date	Time
Off	3-5-75	12:00 N.
On	3-5-75	1:30 PM

Service Branch Leak (Circle One) - Tapping Saddle - Ferrule - Curb Cock - Other

Service Branch Material (Circle One) - Copper - Lead - Brass - Other

Main Break (Circle One) Cir. Crack - Long crack - Bell Crack - Spigot Crack - Other small hole in side

Was there construction in area? Yes NO BY WHOM? CG&E (Electric pole crew) Extent of damage part small hole in wire

Other reason for exc. pulling to set a new power pole.

Remarks (Include type of repair; descr. of break) Electric division of CG&E while pulling to set a new pole, nicked our 8" transite water main, putting a small hole in it. Their maintenance crew made the repair. Used 1 8" Danner lead clamp.

Foreman: GERALD BOLAND
AREA INSPECTOR

Use other side for sketch if necessary. Check here ☒

CINCINNATI WATER WORKS REPAIR UNDERGROUND REPORT

HOUSE No. 2944 DIR. E STREET Garibaldi TYPE RD DATE 11-4-86
LOCATION 184' East of 3rd FH - West of Bridge CREW ID ABOTT
MAIN TO BOX NEAREST BR. _____ HOUSE No. _____ MAIN TO C/L 10' DIRECTION S

REPAIR TYPE: 2 PAVEMENT TYPE 3 EXCAVATED MATERIAL 6

MAIN BREAK: 8" / N PIPE MATERIAL 1 JOINT TYPE - MAIN LEAK TYPE CIRCULAR CRACK
PIPE: SIZE 8" O.D. _____ DEPTH 3.8 PIPE COND.: OUTSIDE 1 INSIDE _____
CEMENT LINED: Y/N POLY WRAPPED: Y/N VALVE LEAK _____

SERVICE BRANCH BREAK: Y/N BRANCH MATERIAL _____ BRANCH LEAK TYPE _____
BRANCH: SIZE _____ DEPTH _____

REPAIR: MANHOURS _____ COST _____ RESTORATION: MANHOURS _____ COST _____

INSTALLATION TYPE: FIRE HYDRANT: Y/N SERVICE BRANCH: Y/N

BRANCH SIZE _____ CONNECTION (SIZE & TYPE) _____

LOCATION OF OTHER UTILITIES IN EXCAVATION None

CONSTRUCTION IN AREA: Y/N BY WHOM? _____

REMARKS CIRC. CRACK - INSTALLED 8" LEAK CLAMP
1" HOLES ALSO IN PIPE

IF BOX IS CHECKED SEE SKETCH ON OTHER SIDE ☐ FIELD SUPRV. John

YEAR PIPE INSTALLED _____ SOIL: TYPE _____ PH _____ CORROSION _____

POLITICAL SUBD. _____ S.A. _____ TRACT _____ BLOCK _____ FACE _____

PIPE SEGMENT No. _____ N COORD. _____ E COORD. _____

WATER: _____ TEMP _____ PRESS _____

UNDERGROUND REPORT

CHECK ONE

HOUSE NO. & STREET 2944 E. Galbraith DATE 2-24-80

PERMIT NO. _____ LOCATION 181.5' E. 3rd FH.W.

CREW NO. M.H. Les Ridge Rd

MAIN TO BOX NEAREST BRANCH — (House No.) — MAIN TO C/L 9' (Direction) S PIPE SIZE 8"

PAVING M.H. 3'x5' COT DEPTH 4' O.D. 9.03

TYPE OF PIPE & JOINT C.I.P. Leadite JOINT

SOIL CONDITION (Circle One) - Bank Run - Cinders - Rock - Clay - Fill - Dirt - Other

PIPE CONDITION (Circle One) - Outside - Badly Pitted - Pitted - Smooth - Other

Inside: Tuberculation - Heavy - Medium - Light - None

Cement Lined: - Yes No Irregular Wall Thickness: Yes No

LOCATION OF OTHER UTILITIES IN EXCAVATION None

REASON FOR EXCAVATION - Branch Installation (Size) — Connection (Size & Type) —

Main	Date	Time
Off	<u>2-27-80</u>	<u>7</u>
On	<u>2-27-80</u>	<u>3:00 PM</u>

Service Branch Leak (Circle One) - Tapping Saddle - Ferrule - Curb Cock - Other
 Service Branch Material (Circle One) - Copper - Lead - Brass - Other
 Main Break (Circle One) Cir. Crack - Long crack - Bell Crack - Spigot Crack - Other

Was there construction in area? Yes No By whom? — Extent of damage —
 Other reason for exc. To Repair 8" M.H.L. 1/4" ORIFICE

Remarks (Include type of repair; descr. of break) Used 1.5' Pa 8" D.I.P. (3 Pa)

2-8" Pipe coupling 1-5'x4' Poly wrap

6 TEN BACK FILL MATERIAL FROM W.W. YARD.

6 BGS Black Top. Notes: Poss 18' lengths Foreman: Flowers

Use other side for sketch if necessary. Check here ☐

150 yds

UNDERGROUND REPORT

USE ONE

HOUSE NO. & STREET 2944 E. GA/brith DATE 2-26-80

PERMIT NO. LOCATION 193.5' E. 3rd FH. W

CREW NO. B. Knight Ridge Rd.

MAIN TO BOX NEAREST BRANCH (House No.) MAIN TO C/L 9' (Direction) S PIPE SIZE 8"

PAVING Asphalt 3'x5' CUT DEPTH 4' O.D. 9.30

TYPE OF PIPE & JOINT C.I.P. Leadite

SOIL CONDITION (Circle One) - Bank Run - Cinders - Rock - (Clay) - Fill - Dirt - Other

PIPE CONDITION (Circle One) - Outside:- Badly Pitted - (Pitted) - Smooth - Other

Inside: Tuberculation - Heavy - Medium - (Light) - None

Cement Lined:- Yes (No) Irregular Wall Thickness: Yes (No)

LOCATION OF OTHER UTILITIES IN EXCAVATION None

REASON FOR EXCAVATION - Branch Installation (Size) Connection (Size & Type)

Service Branch Leak (Circle One) - Tapping Saddle - Ferrule - Curb Cock - Other

Service Branch Material (Circle One) - Copper - Lead - Brass - Other

Main Break (Circle One) Cir. Crack - Long crack - Bell Crack - Spigot Crack - Other

Was there construction in area? Yes (No) By whom? Extent of damage

Other reason for exc. To Repair Leadite JOINT LEAK

Remarks (Include type of repair; descr. of break) Dressed in Pa of Pipe

1 1/2" RIFICE 2 1/4" Pa 8" D.I.P. (ape)

2-8" Pipe coupling 1-5' x 2' Only ward

8 Ton Back Fill Material From w.d. yard Foreman: Flovers

Use other side for sketch if necessary. Check here ☐

74

95,000

UNDERGROUND REPORT

CHECK ONE

HOUSE NO. & STREET Opposite E. 2944 Galbraith Rd. DATE 12-17-73

PERMIT NO. _____ LOCATION S.S. Galbraith Rd. 18' E.

CREW NO. C. Lewis F.H. W. Ridge Rd.

MAIN TO BOX NEAREST BRANCH _____ (House No.) _____ MAIN TO C/L 10' (Direction) S PIPE SIZE 8"

PAVING Asphalt (6' x 3') DEPTH 48" O.D. _____

TYPE OF PIPE & JOINT Cast Iron

SOIL CONDITION (Circle One) - Bank Run - Cinders - Rock - Clay - Fill - Dirt - Other _____

PIPE CONDITION (Circle One) - Outside - Badly Pitted - Pitted - Smooth - Other _____

Inside: Tuberculation - Heavy - Medium - Light - None

Cement Lined: - Yes No Irregular Wall Thickness: Yes No

LOCATION OF OTHER UTILITIES IN EXCAVATION None

REASON FOR EXCAVATION - Branch Installation (Size) _____ Connection (Size & Type) _____

Service Branch Leak (Circle One) - Tapping Saddle - Ferrule - Curb Cock - Other

Service Branch Material (Circle One) - Copper - Lead - Brass - Other

Main Break (Circle One) Cir. Crack - Long crack - Bell Crack - Spigot Crack - Other _____

Was there construction in area? Yes No By whom? _____ Extent of damage _____

Other reason for exc. _____

Remarks (Include type of repair; descr. of break) Circular Crack around Pipe, used

1-8" leak closed to make repair. APPROX. 1 1/2" OFFICE, 55 P.S.I.

DURATION - 1 1/2 HOURS, APPROX. LEAKAGE = 44750 GALLONS

Foreman:

Use other side for sketch if necessary. Check here ☐

Underground Report

Report No. 6-17-05

Date 6-17-05

Neighborhood: Amble

Crew Ticket No. 05-064130-00

House No. & Street: 2970 E. Calhoun Rd

Location: 64th West of 200th Ave. and on Ridge Ave

Pipe Size: 8" O.D.: 48 Depth: 48 Cement Lined (Y/N/U) Polywrapped (Y/N/U)

Main to Box, Nearest Branch: N/A House No. & Street: N/A

Main to C/L: 8" Main to C/L

I. Existing Conditions/Materials: (Circle no more than two in each category)

Pavement Types	Excavated Material	Pipe Material	Joint Types	Pipe Condition-Outside	Branch Material
1 Concrete	1 Bank Run/Gravel	1 Cast Iron	1 Lead	01 Badly Pitted	1 Copper
2 Block Paved	2 Cinders	2 Steel	2 Mechanical Joint	02 Pitted	2 Lead
3 Asphalt/Concrete	3 Rock	3 Ductile Iron	3 Braided	03 Smooth	3 Galvanized Steel/Black Iron
4 Asphalt/Stone (mac)	4 Clay	4 Concrete	4 Concrete	04 Not Visible	4 Brass
5 Low Type (gravel)	5 Fill	5 Asbestos Cement (Transite)	5 Compression Joint	05 Other-See Below	5 Plastic
6 Sod	6 Dirt	6 Copper	6 Not Visible	Pipe Condition-Inside	6 Cast Iron
7 Sidewalk	7 Sandy Soil	7 Plastic	7 Other-See Below	11 Heavy Tuberculation	7 Ductile Iron
8 Driveway	8 Other-See Below	8 Not Visible		12 Medium Tuberculation	8 Does Not Apply
9 Other-See Below		9 Other-See Below		13 Light Tuberculation	9 Other-See Below
Cut Size: <u>3/4"</u>				14 No Tuberculation	
				15 Not Visible	
				16 Other-See Below	

II. Utilities In Excavation: (Circle one)

None 1 Sewer 2 Gas 3 Electric 4 Telephone 5 T.V. Cable 6 Car Rails 7 Other

Measurements: (Sketch on back — Y/N)

III. Maintenance: (Circle one)

Leak - Joint, Valve, Fire Hydrant, Branch 3 New Installation* 4 Abandonment* (*Drawing on back — Y/N)

(Circle One Leak Type and One Repair Type From The Following Categories)

Main Break/Leak Type	Valve Leak Type	Fire Hydrant Leak Type	Branch Leak Type
11 Circular Crack	21 Stuffing Box	31 Inside Lead Leak	41 Ferrule
12 Longitudinal Crack	22 Bonnet Bolts	32 Outside Lead Leak	42 Stop Cock
13 Bell Crack	23 Defective Valve	33 Hydrant Valve	43 Inside Pipe Leak
14 Corrosion Hole	29 Other-See Below	39 Other-See Below	44 Outside Pipe Leak
15 Rusted Bolts			45 Service Saddle
16 Bad Gasket/Jl. material			49 Other-See Below
Main/Leak Repair Type	Valve Repair Type	Fire Hydrant Repair Type	Branch Repair Type
01 Caulk Joint	01 Replace Existing Valve	01 Renew Existing Lead	01 Repair
02 Caulk & Clamp Joint	02 Replace Cap	02 Replace Existing F.H. Valve	02 Replace
03 Leak Clamp	03 Replace Bonnet/Stem	03 Replace Existing F.H. Valve & Lead	03 Disconnect
04 Pipe & Coupling	04 Bolt Replacement	*90 Install New F.H. Lead and Valve	*90 New Branch Installation
05 Repour Lead	05 Repack Stuffing Box	*98 Abandon F.H., Lead and Valve	*98 Abandon Branch
06 Replace Bolts	06 Replace Seal Plate	99 Other-See Below	99 Other-See Below
07 Replace fitting/cplg.	07 Replace Stem		
08 Tighten Coupling	08 Replace Gears		

Structure: Code: Structure: Code: Structure: Code:

Remarks/Other: 26' 8" DIP

Underground Report

Report No. 11/02/01

Neighborhood: Cammy

Permit No. 1

Crew Ticket No. 10'N

Date 11/02/01

House No. & Street: 2970 Galbreath RD.

Location: 375' W of the 1st Hyd w/ of Ridge

Pipe Size: 8"

O.D.: 8.0

Depth: 4.5

Cement Lined - Y/N

Polywrapped - Y/N

Main to Box, Nearest Branch: 00

House No. & Street: 1

I. Existing Conditions/Materials: (Circle no more than two in each category)

Pavement Types	Excavated Material	Pipe Material	Joint Types	Pipe Condition-Outside	Branch Material
1 Concrete	1 Bank Run/Gravel	1 Cast Iron	1 Lead	01 Badly Pitted	1 Copper
2 Asphalt/Concrete	2 Cinders	2 Steel	2 Mechanical Joint	02 Pitted	2 Lead
3 Asphalt/Stone (mac)	3 Rock	3 Ductile Iron	3 Lead	03 Smooth	3 Galvanized Steel/Black Iron
4 Asphalt/Stone (mac)	4 Clay	4 Concrete	4 Compression Joint	04 Not Visible	4 Brass
5 Low Type (gravel)	5 Fill	5 Asbestos Cement (Transite)	5 Flange	05 Other-See Below	5 Plastic
6 Sod	6 Dirt	6 Copper	6 Not Visible	Pipe Condition-Inside	6 Cast Iron
7 Sidewalk	7 Sandy Soil	7 Plastic	7 Other-See Below	11 Heavy Tuberculation	7 Ductile Iron
8 Driveaway	8 Other-See Below	8 Not Visible		12 Medium Tuberculation	8 Does Not Apply
Cut Size: <u> </u>		9 Other-See Below		13 Light Tuberculation	9 Other-See Below
				14 No Tuberculation	
				15 Not Visible	
				16 Other-See Below	

II. Utilities In Excavation: (Circle one) 0 None 1 Sewer 2 Gas 3 Electric 4 Telephone 5 T.V. Cable 6 Car Rails 7 Other

Measurements: (Sketch on back — Y/N)

III. Maintenance: (Circle one) 1 Break 2 Leak - Joint, Valve, Fire Hydrant, Branch 3 New Installation* 4 Abandonment* (*Drawing on back — Y/N)

(Circle One Leak Type and One Repair Type From The Following Categories)

Main Break/Leak Type	Valve Leak Type	Fire Hydrant Leak Type	Branch Leak Type
11 Circular Crack	21 Stuffing Box	31 Inside Lead Leak	41 Ferrule
12 Longitudinal Crack	22 Bonnet Bolts	32 Outside Lead Leak	42 Stop Cock
13 Bell Crack	23 Defective Valve	33 Hydrant Valve	43 Inside Pipe Leak
14 Corrosion Hole	29 Other-See Below	39 Other-See Below	44 Outside Pipe Leak
15 Rusted Bolts			45 Service Saddle
16 Bad Gasket/Jt. material			49 Other-See Below
Main/Leak Repair Type	Valve Repair Type	Fire Hydrant Repair Type	Branch Repair Type
01 Caulk Joint	01 Replace Existing Valve	01 Renew Existing Lead	01 Repair
02 Caulk & Clamp Joint	02 Replace Cap	02 Replace Existing F.H. Valve	02 Replace
03 Leak Clamp	03 Replace Bonnet/Stem	03 Replace Existing F.H. Valve & Lead	03 Disconnect
04 Pipe & Coupling	04 Bolt Replacement	*90 Install New F.H., Lead and Valve	*90 New Branch Installation
05 Repair Lead	05 Replace Stuffing Box	*98 Abandon F.H., Lead and Valve	*98 Abandon Branch
06 Replace Bolts	06 Replace Seal Plate	99 Other-See Below	99 Other-See Below
07 Replace filling/cplg.	07 Replace Stem		
08 Tighten Coupling	08 Replace Gears		

Structure: Code:

Remarks/Other: Cut out 8' piece of pipe and dressed in 23" of pipe

10

LEADITE

Longitudinal Crack & Joint

VALVE LEA

TION: MANH-

SERVICE BRAND

1000

7-11-60 4-8-57 2-8 Pipe Company

PRV.

CIR

8

1/90 EYR

Underground Report

Report No. _____

House No. & Street: 3301 E Galbreath Rd

Neighborhood: Dumbekly

Date 12-27-05

Location: 160' W F.H. & Spains Valley

Permit No. _____

Crew Ticket No. 05-138227-001

Pipe Size: 8"

O.D.: _____

Depth: 44"

Cement Lined - Y Polywrapped - Y

Main to Box, Nearest Branch: _____

House No. & Street: _____

Main to C/L: 19' S

I. Existing Conditions/Materials: (Circle no more than two in each category)

Pavement Types		Excavated Material		Pipe Material		Joint Types		Pipe Condition-Outside		Branch Material	
1 Concrete	2 Block Paved	1 Bank Run/Gravel	2 Cinder	1 Cast Iron	2 Steel	1 Lead	2 Mechanical Joint	01 Badly Pitted	02 Pitted	1 Copper	2 Lead
3 Asphalt/Concrete	4 Asphalt/Stone (mac)	3 Rock	4 Clay	3 Ductile Iron	4 Concrete	3 Leadite	4 Compression Joint	03 Smooth	04 Not Visible	3 Galvanized Steel/Black Iron	4 Brass
5 Low Type (gravel)	6 Sod	5 Fill	6 Dirt	5 Asbestos Cement (Transite)	6 Copper	5 Flange	6 Other-See Below	05 Other-See Below	06 Pipe Condition-Inside	5 Plastic	6 Cast Iron
7 Sidewalk	8 Driveway	7 Sandy Soil	8 Other-See Below	7 Plastic	8 Not Visible	7 Other-See Below	11 Heavy Tuberculation	12 Medium Tuberculation	13 Light Tuberculation	7 Ductile Iron	8 Does Not Apply
9 Other-See Below	Cut Size: <u>4' x 6'</u>	9 Other-See Below		9 Other-See Below			14 No Tuberculation	15 Not Visible	16 Other-See Below	9 Other-See Below	

II. Utilities In Excavation: (Circle) 0 None 1 Sewer 2 Gas 3 Electric 4 Telephone 5 T.V. Cable 6 Car Rails 7 Other _____

Measurements: (Sketch on back — Y/N)

III. Maintenance: (Circle one) 1 Break 2 Leak - Joint, Valve, Fire Hydrant, Branch 3 New Installation* 4 Abandonment* (*Drawing on back — Y/N)

(Circle One Leak Type and One Repair Type From The Following Categories)

Main Break/Leak Type		Valve Leak Type		Fire Hydrant Leak Type		Branch Leak Type	
11 Circular Crack	12 Longitudinal Crack	21 Stuffing Box	22 Bonnet Bolts	31 Inside Lead Leak	32 Outside Lead Leak	41 Ferrule	42 Stop Cock
13 Bell Crack	14 Corrosion Hole	23 Defective Valve	29 Other-See Below	33 Hydrant Valve	39 Other-See Below	43 Inside Pipe Leak	44 Outside Pipe Leak
15 Rusted Bolts	16 Bad Gasket/jt. material					45 Service Saddle	49 Other-See Below
Main/Leak Repair Type		Valve Repair Type		Fire Hydrant Repair Type		Branch Repair Type	
01 Caulk Joint	02 Leak Clamp	01 Replace Existing Valve	02 Replace Cap	01 Renew Existing Lead	02 Replace Existing F.H. Valve	01 Repair	02 Replace
03 Caulk & Clamp Joint	04 Pipe & Coupling	03 Replace Bonnet/Stem	04 Bolt Replacement	03 Replace Existing F.H. Valve & Lead	04 Install New F.H. Valve & Lead	03 Disconnect	04 Disconnect
05 Repour Lead	06 Replace Bolts	05 Repack Stuffing Box	06 Replace Seal Plate	05 Install, "Cut In" New Valve	06 Install New F.H., Lead and Valve	05 New Branch Installation	06 New Branch Installation
07 Replace fitting/cplg.	08 Tighten Coupling	07 Replace Stem	08 Replace Gears	07 Replace Valve	08 Abandon Valve	07 Abandon Branch	08 Abandon Branch
		09 Other-See Below	09 Other-See Below	09 Other-See Below	09 Other-See Below	09 Other-See Below	09 Other-See Below

Structure: _____ Code: _____

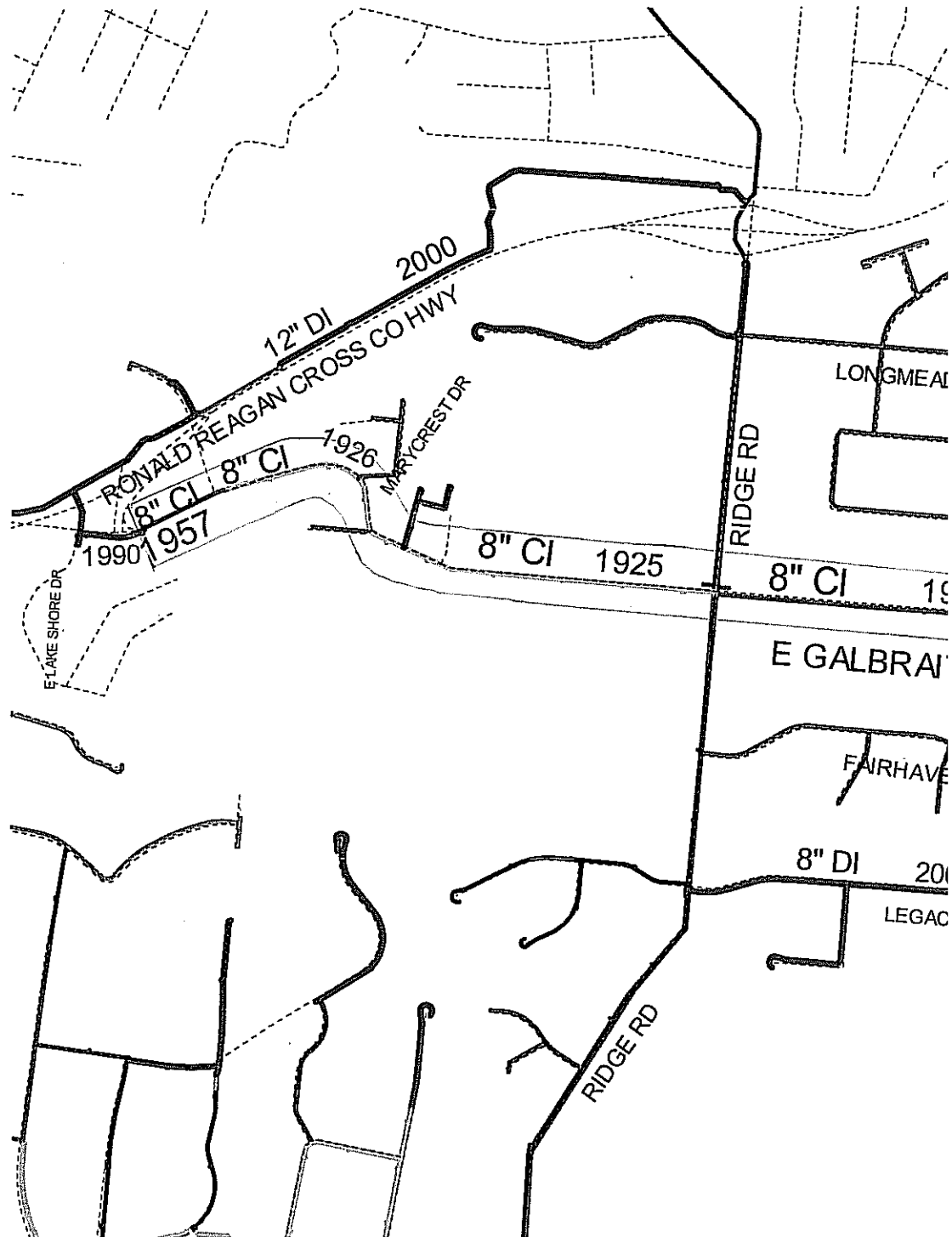
Structure: _____ Code: _____

Structure: _____ Code: _____

Remarks/Other: Leak installed 8" full circle lead clamp.

3.22 yos Flash Fill

Galbraith Road Replacement



0.7

0

Underground Report

Report No. _____
Date 1-26-05

House No. & Street: 3361 E GALATIOTA RD Neighborhood: AMBS
Location: R2 E 1 FH E of Spring Valley Permit No. _____
Pipe Size: 8" O.D.: _____ Depth: 58" Cement Lined - Y/N/D Polywrapped - Y/N/D
Main to Box, Nearest Branch: _____ House No. & Street: _____
Main to C/L: 16'

I. Existing Conditions/Materials: (Circle no more than two in each category)

Pavement Types	Excavated Material	Pipe Material	Joint Types	Pipe Condition-Outside	Branch Material
1 Concrete	1 Bank Run/Gravel	1 Cast Iron	1 Lead	01 Badly Pitted	1 Copper
2 Block Paved	2 Cinders	2 Steel	2 Mechanical Joint	02 Pitted	2 Lead
3 Asphalt/Concrete	3 Rock	3 Ductile Iron	3 Concrete	03 Smooth	3 Galvanized Steel/Black Iron
4 Asphalt/Stone (mac)	4 Clay	4 Concrete	4 Asbestos Cement (Transite)	04 Not Visible	4 Brass
5 Low Type (gravel)	5 Fill	5 Asbestos Cement (Transite)	5 Flange	05 Other-See Below	5 Plastic
6 Sod	6 Dirt	6 Copper	6 Not Visible	Pipe Condition-Inside	6 Cast Iron
7 Sidewalk	7 Sandy Soil	7 Plastic	7 Other-See Below	11 Heavy Tuberculation	7 Ductile Iron
8 Driveway	8 Other-See Below	8 Not Visible		12 Medium Tuberculation	8 Does Not Apply
9 Other-See Below		9 Other-See Below		13 Light Tuberculation	9 Other-See Below
Cut Size: <u>6 X 6</u>				14 No Tuberculation	
				15 Not Visible	
				16 Other-See Below	

II. Utilities In Excavation: (Circle one) 1 Sewer 2 Gas 3 Electric 4 Telephone 5 T.V. Cable 6 Car Rails 7 Other 20' top of C/L

Measurements: (Sketch on back — Y/N/D)

III. Maintenance: (Circle one) 1 Break 2 Leak - Joint, Valve, Fire Hydrant, Branch 3 New Installation* 4 Abandonment* (*Drawing on back — Y/N)

(Circle One Leak Type and One Repair Type From The Following Categories)

Main Break/Leak Type	Valve Leak Type	Fire Hydrant Leak Type	Branch Leak Type
11 Circular Crack	21 Stuffing Box	31 Inside Lead Leak	41 Ferrule
12 Longitudinal Crack	22 Bonnet Bolts	32 Outside Lead Leak	42 Stop Cock
13 Bell Crack	23 Defective Valve	33 Hydrant Valve	43 Inside Pipe Leak
14 Corrosion Hole	29 Other-See Below	39 Other-See Below	44 Outside Pipe Leak
15 Rusted Bolts			45 Service Saddle
16 Bad Gasket/Jl. material			49 Other-See Below
Main/Leak Repair Type	Valve Repair Type	Fire Hydrant Repair Type	Branch Repair Type
01 Caulk Joint	01 Replace Existing Valve	01 Renew Existing Lead	01 Repair
02 Caulk & Clamp Joint	02 Replace Cap	02 Replace Existing F.H. Valve	02 Replace
03 Leak Clamp	03 Replace Bonnet/Stem	03 Replace Existing F.H. Valve & Lead	03 Disconnect
04 Pipe & Coupling	04 Bolt Replacement	04 Install New F.H. Valve	03 New Branch Installation
05 Repour Lead	05 Repack Stuffing Box	05 Abandon Valve	08 Abandon Branch
06 Replace Bolts	06 Replace Seal Plate	07 Replace Stem	99 Other-See Below
07 Replace fitting/cplg.	08 Replace Gears	98 Abandon Valve	
08 Tighten Coupling		99 Other-See Below	

Structure: _____ Code: _____
Structure: _____ Code: _____
Structure: _____ Code: _____

Remarks/Other: _____

UNDERGROUND REPORT

CHECK ONE

HOUSE NO. & STREET 3369^N CALVERTH DATE 8-31-70

PERMIT NO. 86 W 15TH F LOCATION STABLEY

CREW NO. CLARK

MAIN TO BOX NEAREST BRANCH --- (House No.) --- MAIN TO C/L 11.4' (Direction) --- PIPE SIZE 8"

PAVING ASPHALT ST DEPTH 58" O.D. ---

TYPE OF PIPE & JOINT CAST IRON

SOIL CONDITION (Circle One) - Bank Run - Cinders - Rock - Clay - Fill - Dirt - Other ---

PIPE CONDITION (Circle One) - Outside - Badly Pitted - Pitted - Smooth - Other ---

Inside: ? Tuberculation - Heavy - Medium - Light - None

2 Cement Lined: - Yes No Irregular Wall Thickness: Yes No

LOCATION OF OTHER UTILITIES IN EXCAVATION NONE

REASON FOR EXCAVATION - Branch Installation (Size) --- Connection (Size & Type) ---

Main	Date	Time
Off		
On		

Service Branch Leak (Circle One) - Tapping Saddle - Ferrule - Curb Cock - Other

Service Branch Material (Circle One) - Copper - Lead - Brass - Other ---

Main Break (Circle One) Cir. Crack - Long crack - Bell Crack - Spigot Crack - Other ---

Was there construction in area? Yes No By whom? --- Extent of damage ---

Other reason for exc. ---

Remarks (Include type of repair; descr. of break) Bolt Rusted OFF 8x2"

SEWAGE SADDLE

Foreman: [Signature]

Use other side for sketch if necessary. Check here ☐